



Collections & Research

Annual Report for 2009

**THE FIELD MUSEUM  
2009 ANNUAL REPORT TO THE  
BOARD OF TRUSTEES**

**COLLECTIONS AND RESEARCH**

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## **CONTENTS**

2009 Annual Report .....	3
Collections and Research Committee of the Board of Trustees .....	8
Encyclopedia of Life Committee and Repatriation Committee of the Board of Trustees .....	9
Staff List .....	10
Publications .....	15
Active Grants.....	38
Conferences, Symposia, Workshops and Invited Lectures .....	54
Museum and Public Service .....	62
Fieldwork and Research Travel .....	71
Public Education and Outreach .....	76
Higher Education.....	88
Training Programs .....	95
Collections and Research Interns .....	100
Resident Graduate Students.....	102
Collections and Research Volunteers .....	103
Honorary Appointments .....	105
Collection Statistics .....	113
Biodiversity Synthesis Center .....	117
Fieldiana .....	120
The Pritzker Laboratory for Molecular Systematics and Evolution .....	121
Scanning Electron Microscope .....	123
Scholarship Committee .....	124



## **COLLECTIONS AND RESEARCH – 2009 ANNUAL REPORT**

The Collections & Research Division often highlights its research and student training accomplishments in the areas of archaeology, ethnography, biodiversity, evolutionary biology, and paleontology. However, we are also very broadly vested in environmental conservation issues. Thus I focus on this as the main theme for the introduction to this year's report. It should come as no surprise that all of our scientists, especially the biologists, but paleontologists and archaeologists as well, are concerned with issues like declining biodiversity, habitat loss, ecosystem fragmentation and extinction events. Take climate change, for example. While at first glance climate change may not seem to be the purview of a natural history museum, it's a critical issue that cuts across all of the Museum's research disciplines. Most obviously, the research programs of our Botany and Zoology departments are deeply involved in the study of biodiversity, and thus are acutely sensitive to the effects of climate change on the organisms they study. And since the planet's climate has shifted many times in the past, much of our understanding of climate change is and continues to be based on research by archaeologists and paleontologists. Indeed, all of the departments in the Collections & Research Division today have research programs that relate to climate change.

The Botany Department is home to the longest-standing program related to climate, that of Curator Emeritus Michael Dillon, who has been studying the terrestrial effects of El Niño events in South America since 1982, recording the terrestrial effects of no fewer than four El Niño events. This past winter, Mike was in northern Chile setting up a weather station at Caleta Hueso, about 500 miles south of the border with Peru, and has since been amassing daily climate data that can be correlated with events that have resulted in plants blooming in the Atacama and Peruvian desert ecosystems. Across the world in Kenya, Botany Associate Curator and Chair Thorsten Lumbsch recently launched a project that uses lichens to better understand the impact of climate change on tropical ecosystems. This collaboration between Field Museum scientists and the National Museums of Kenya, supported by the IDP Foundation, Inc., is documenting the altitudinal zonation of lichens in mountain ranges of central Kenya, including Mt. Kenya, to track the progression of climate change. Similarly, Adjunct Curator/Collection Manager Robert Lücking and German colleague Volkmar Wirth have documented the appearance of tropical leaf-inhabiting lichens in southern Germany, which is evidence of global warming. Robert is now looking into the possibility of conducting a monitoring project in eastern North America, where changes in the distribution patterns of leaf-inhabiting lichens may likewise indicate shifts in climate patterns. In addition, Curator Emeritus John Engel and Adjunct Curator/Collection Manager Matt von Konrat have been investigating the diversity and distribution patterns of liverworts in sensitive habitats such as southern South America as markers of climate change, key factors in the global carbon budget, and indicators of global warming.

On a similar note, projects in the Zoology Department are investigating the effects of changing climates on animal populations. Two newly awarded grants from the John D. and Catherine T. MacArthur Foundation will use historical collections from Madagascar and the Albertine Rift Region of Africa to investigate climate change. The Malagasy project, under the direction of Field Biologist Steve Goodman and Malagasy colleagues, will study changes in distribution and genetic structure in small mammals and also create an atlas of Malagasy biodiversity (one of several climate-related projects Steve is managing). Preliminary results suggest that global warming is driving numerous species of small mammals to higher and higher elevations on the island. For the Albertine Rift project, Associate Curator and Chair John Bates (Birds) and Adjunct Curator Julian Kerbis (Mammals) will use historic and modern museum specimens along with their geographic locality data to correlate the genetic make-up of populations with



past, present and future climate models for the region. Their project will focus on understanding how climate change is affecting birds, small mammals and their parasites in this region. Curator Rüdiger Bieler (Invertebrates) also is launching a NSF-funded project on an unusual group of marine gastropods, the so-called “worm-snails” whose reef colony structures make them important indicators of sea level and climate change; Rüdiger’s work sorting out the taxonomy of this group will help solidify their status as environmental indicators. In the last several years, Curator Lawrence Heaney (Mammals) and colleagues have discovered 25 previously unknown species of mammals in intensive transect surveys of mountains on Luzon Island in the Philippines, a cool, wet habitat that would be decimated by prolonged annual temperature increases. Larry and team presented their findings in a recent *Fieldiana*, and their data form the core of relevant information that the group will present in 2010 to the Wildlife Conservation Society of the Philippines and the Philippine Protected Areas and Wildlife Bureau, organizations heavily committed to ameliorating the impact of climate change. Among our Field Museum resident Ph.D. Students, Lucinda Lawson from the University of Chicago is completing her dissertation (advised by John Bates) on the effects of climate change on population structure in three lineages of *Hyperolius* frogs from the montane forests of East Africa, using genetic analyses to show how the three lineages have responded to historical changes in the climate. As evidenced by these projects, the Museum’s collections represent a key resource for understanding the effects of climate change around the world, and all specimen-based inventory work done by our zoologists and botanists provides baseline data useful in understanding how organisms and populations will be affected by climate change in the future.

A larger goal of all these projects is to share findings with others in related fields, and the public, because long-term conservation planning needs such data to understand change over time. In fact, thanks to the Biodiversity Synthesis Center, part of the Encyclopedia of Life initiative, The Field Museum has been a forum for discussion and research on biodiversity and climate. The BioSynC hosted a four-day working group meeting in October 2009 whose ultimate goal was to develop objective criteria to assess species’ relative vulnerability to global climate change. The meeting featured 11 participants from the U.S. and Germany and drew together experts from disparate fields—ecophysiology, population genetics, quantitative genetics, and phylogenetics—fields that should be, but too often do not, communicate with each other. This is the sort of integrated thinking that a natural history museum is perfectly equipped to facilitate.

Climate change is not solely the purview of our biologists. The geological record unquestionably documents that when the earth’s climate changes significantly, there are dramatic effects on biodiversity and habitability. The scientists in our Geology department are contributing important new insights from the fossil record on how groups of organisms and ecosystems crashed and recovered from various mass extinctions at different scales in the fossil record—these fossil plants and animals include the ancestors of present day species. Ken Angielczyk, Assistant Curator of Paleomammalogy, combines his knowledge of Permian and Triassic fossil vertebrates from South Africa with complex mathematical modeling of foodwebs within ecosystems to determine how long it took for ecosystem stability to recover following the Permian-Triassic extinction (250 million years ago), the largest known extinction event in Earth history. Ken and colleagues are extending this research to several other major extinctions throughout geological history, all of which are linked to global climate change, to determine what patterns characterize these events. Associate Curator of Fossil Invertebrates Scott Lidgard also is active in research surrounding mass extinction boundaries. Scott and colleagues have demonstrated ecosystems did not recover to look like their pre-extinction versions, but instead became vastly different. Many of the processes that contributed to the PT extinction such as an increase in greenhouse gases, acidification, and oxygen-depletion are occurring in the present due to human activity. Both Scott’s and Ken’s research indicate that if



we reach a critical point, ecosystem recovery will take millions of years, and that once lost, present-day ecosystems may be largely irretrievable. Paleobotany Collection Manager Ian Glasspool's research on fossil charcoal adds to our understanding of the role of fire in ancient ecosystems. Fossil charcoals serve as proxies for ancient fire and oxygen levels, and the level of wildfires in ancient ecosystems have been linked to shifting global carbon balance. As fire hazards increase with rising global temperatures, Ian's research may provide important insight into the effects of increasing atmospheric carbon levels on ecosystems.

Climate change is also a central issue for our Anthropology Department, where many curators study the effects of past and present human behaviors on global climate change, including human technologies, land-use strategies, resource use, and responses to crises. Anthropological fieldwork across the globe examines the trajectories of human history and the relationship to ancient climate change. To take just three examples: MacArthur Curator Jonathan Haas is investigating the origins of urbanism on the Peruvian coast in the 2<sup>nd</sup> and 3<sup>rd</sup> millennium BC and the relationship between social change and El Niño cycles and other climate events; Assistant Curator Bill Parkinson's research on settlement in Hungary and Greece from the 5<sup>th</sup> millennium BC is providing new data on the growth of agrarian societies in Europe that can be compared to climatic data from early Europe; Curator Chap Kusimba's excavations at Mtwapa, Kenya are uncovering the patterns of trade between Africa and Asia since the 1<sup>st</sup> millennium AD, and the relationship to environmental change in Africa's interior. Further, our Anthropology curators are reaching out to the public with their research on these topics, by such routes as Curator Gary Feinman's recent book, *The archaeology of environmental change: socionatural legacies of degradation and resilience*, and Associate Curator Ryan Williams' contribution to the Discovery International documentary "Climate and Civilization," for which he was interviewed about his research on the effects of climate change in the rise and fall of the Wari empire in Peru.

This is not merely a case of our scientists jumping on climate change because it is a "hot topic" (no pun intended). Rather, it is an illustration of how research on biodiversity and cultural history is fundamental to effective study of climate change. The broad range of research programs in C&R has always allowed us the flexibility to make opportunistic contributions of great significance in many scientific areas.

In addition to our own programs, C&R continues to provide scientific expertise to support the applied conservation efforts of the Environmental Conservation and Culture Division (ECCo), both in the field and at the Museum. For example, within the past two years Zoology Curator and Chair John Bates (Birds), Assistant Collections Manager Phil Willink (Fishes) and Collections Assistant Jim Louderman (Insects) participated in an ECCo training program at the Rio Tahuamanu Biological Station in Pando, Bolivia, and Phil also served as a fish specialist in an ECCo rapid inventory in Peru. Helping fill the dearth in field guides for tropical regions, scientists from the Botany and Zoology Departments have developed several Rapid Color Guides to facilitate identification in the field. Negaunee Collections Manager Bill Stanley and Curator Larry Heaney (both Zoology/Mammals) have created guides to the small mammals of Tanzania and the Philippines, respectively, and Adjunct Curator/Collection Manager Robert Lücking (Botany) and resident Ph.D. Student Eimy Rivas Plata (UIC) have developed Rapid Color Guides for Lichens and Microlichens of Latin America; all the Guides are available on-line. Among our longest-term collaborations with ECCo, the Botany Department's Searle Herbarium continues to be the foundation for scans of Neotropical plants, known as the Rapid Reference Collection, and for *vPlants*, an online, searchable database of plants of the Chicago region (a collaboration of the Field, The Morton Arboretum, and the Chicago Botanic Garden) that provides plant specimen data and digital images of specimens via the internet.



Of course C&R does not need to explain the relevance of its research to our core constituents, the readers of this report. But if we wanted to point to an objective measure of the significance of C&R research, we would need look no further than our success with competitive grants. 2009 was a terrific year on that front, with over \$4.5 million in new awards to scientists in the Collections & Research Division—and an almost unheard of 42% success rate with National Science Foundation proposals—attesting to the amazing variety and continued vitality of our research. In addition to the MacArthur awards noted above, other highlights for Zoology include a \$475,000 NSF award to Curator Rüdiger Bieler (Invertebrates) for his project mentioned earlier on the systematics of the Vermetidae, aka “worm-snails” (this is in addition to Rüdiger’s \$332,000 NSF grant for “Bivalves in Time and Space”—a good year for gastropods!). In the Fish Division, Curator Mark Westneat (Zoology/Fishes and BioSynC) was awarded \$400,000 by the National Science Foundation for a project that will analyze a total of 648 species of fishes to understand their genealogy and evolutionary patterns as well as the engineering aspects of fish skulls, while Assistant Curator of Fishes Leo Smith received a \$120,000 grant from the Institute of Museum and Library Services for a project to provide long-term security and access to genetic resources at the Museum. MacArthur Curator Bruce D. Patterson (Mammals) received his fourth Earthwatch award (\$157,000) to research the biodiversity and the behavior and ecology of lions in the arid woodlands of Tsavo, Kenya. And the Museum’s commitment to training got a big boost from the “Research Experiences for Undergraduates” (REU) project from NSF spearheaded by Associate Curator Petra Sierwald (Insects), in the amount of \$258,000, which will provide summer internships to support eight highly-qualified undergraduates annually, conducting research in systematic biology under the mentorship of Field Museum faculty.

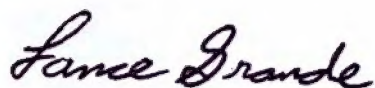
In Anthropology, Head Conservator Ruth Norton and Adjunct Curator Jim Phillips are leading the *Iraq Cultural Heritage Project*, supported by a \$1.2 million grant from the U.S. Department of State, which is training visiting Iraqi museum professionals from Iraq’s State Board of Antiquities and Heritage, the Iraq National Museum and other Iraqi cultural institutions in conservation methods and collections management techniques and modern museum practices. Assistant Curator Bill Parkinson received a grant of \$159,500 from the America for Bulgaria Foundation (ABF) to develop a formal procedure for soliciting and reviewing proposals for archaeological research and site preservation in Bulgaria and the Balkans, as well as to support a Bulgarian postdoctoral researcher; Bill also landed a \$230,000 NSF grant for a study of early social dynamics in prehistoric villages on the Great Hungarian Plain. Associate Curator Antonio Curet was awarded NSF funding of \$159,000 to study household life and social change in ancient Puerto Rico, while Associate Curator Ryan Williams received an NSF REU award of \$177,000 that will involve undergraduate interns in a project on basalt sourcing in the Andean Altiplano.

In Botany, Curator Emeritus Jon Engel and Adjunct Curator/Collection Manager Matt von Konrat received word late in the year of a \$210,000 award from NSF for collaborative research on the floristics, and implications for conservation, of the three bryophyte plant groups from the Cape Horn archipelago. Associate Curator and Chair Thorsten Lumbsch (Botany) learned that his grant proposal to the National Science Foundation on “Hidden species diversity in parmelioid lichens (Ascomycota)” will be funded at the full budget, \$282,000. The project, occurring over two years starting in March 2010, will address the issue of species circumscription in a group of North American lichens using molecular markers. The project will also support a postdoctoral research scientist. In Geology, Associate Curator and Chair Peter Makovicky and resident Ph.D. Student Nate Smith were awarded a three-year NSF grant (\$212,791) to continue their research on Mesozoic vertebrate fossils from the Beardmore Glacier Region, Antarctica.



Our grant success is nothing short of amazing given that our curatorial faculty is only two-thirds the size it was five years ago. The fact that our success rate is so high, especially compared to universities, is a testament to the quality of our scientists and their research programs. The curators—and professional staff—are still quite prolific on the publication front as well, with some 250 scientific publications in 2009. The diversity of topics addressed by our scientists is impressive, ranging from Earth's greatest mass extinction at the end of the Permian Period to the new findings on the geographic origins of Nasca trophy heads based on isotopic analysis, and many molecular studies based in our Pritzker lab including papers on ant evolution, molecular phylogeny of Sino-Himalayan plants, natal site-fidelity by immature lemon sharks and horizontal gene transfer in lichens. As usual, among these papers and articles there were many new species described and "named." Our biologists and paleontologists described 116 new species during the year—several dinosaurs, 83 millipedes, several bats, a mouse, a magnolia (pictured on the cover), an octopus from hydrothermal vents, and more.

All of these new species, of course, are drawn from our scientific staff's intensive fieldwork, which as usual took our curators and professional staff to every corner of the world during the past year, including Kenya, Samoa, Thailand, Chile, China—and even Wyoming. As it is now, and as it has been for over 100 years, a world-class natural history collection originates in the sweat, aching muscles, sore feet, drudgery (and campfires, permits, canned food, malaria medicine) and ultimately the satisfaction of fieldwork. The Field Museum was founded during the great age of Museum collecting, and our present scientific reputation has since been built on that great tradition of scientific research. Then, as now, practice was not simply an idle accumulation of treasures, but rather the building of a great repository of research specimens. It is no exaggeration to say that an institution of the size and international renown of The Field Museum is one of the truly great libraries of our earth's natural and cultural wonders. While scarcely more than a century old, its now vast collections are as irreplaceable in the modern world as the intellectual resources of the Great Library of Alexandria were in ancient times. Our collections hold millions of years' worth of information on evolution, biodiversity, extinction, social and political development, and yes, even climate change. Without institutions like The Field Museum, many of the known wonders of the Book of Nature would be inaccessible, not to mention those that have yet to be discovered. In our rapidly changing world it is even more critical to safeguard these biological and cultural treasures, and to mine the rich scientific and historical data they hold. They hold the key to untold mysteries of our planet and life on it, and answers to questions we have yet to even conceive.



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Senior Vice President and Head  
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Cooper, W. J., Smith, L. L. and **M. W. Westneat**. (2009). Exploring the radiation of a diverse reef fish family: Phylogenetics of the damselfishes (Pomacentridae), with new classifications based on molecular analyses of all genera. *Molecular Phylogenetics and Evolution* 52: 1–16.

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Grubich, J. R., **Westneat, M. W.** and C. L. McCord. (2009). Diversity of lionfishes (Pisces: Scorpaenidae) among remote coral reefs of the Palau Archipelago. *Coral Reefs* 28: 807–808.

#### **Philip Willink**

**Willink, P.W.** and F.M. Veraldi. (2009). The fishes of Will County, Illinois. *Fieldiana: Zoology, New Series* 1551: 1–61.

Feldheim, K.A., **P. Willink**, J.E. Brown, D.J. Murphy, M.E. Neilson, and C.A. Stepien. (2009). Microsatellite loci for Ponto-Caspian gobies: markers for assessing exotic invasions. *Molecular Ecology Resources* 9: 639–644.

**Willink, P.W.** (2009). Book review: Bigheaded carps: a biological synopsis and environmental risk assessment. *Copeia* 2009: 419–421.

### **BIODIVERSITY SYNTHESIS CENTER**

#### **Karen Cranston**

**Cranston, K.A.**, Hurwitz, B., Ware, D., Stein, L., and Wing, R.A. (2009). Species trees from highly incongruent gene trees in rice. *Systematic Biology* doi: 10.1093/sysbio/syp054.

#### **Torsten Dikow**

**Dikow, T.** (2009). Sharing your Diptera images with the Encyclopedia of Life. *FlyTimes* 42: 5–7.

**Dikow, T.** (2009). Using digitized Diptera literature from the Biodiversity Heritage Library. *FlyTimes* 42: 13–14.

**Dikow, T.** (2009). A phylogenetic hypothesis for Asilidae based on a total evidence analysis of morphological and DNA-sequence data (Insecta: Diptera: Brachycera: Asiloidea). *Organisms, Diversity, and Evolution* 9(3): 165–188.

**Dikow, T.** & Bayless, K. M. (2009). Taxonomic revision of the genus *Schildia* Aldrich, 1923 (Diptera: Asilidae: Leptogastrinae) with the description of new extant and extinct species. *Insect Systematics & Evolution* 40(3): 253–289.

#### **Joshua Drew**

**Drew, J.A.** and Barber, P.H. (2009). Sequential Cladogenesis of *Pomacentrus moluccensis* (Bleeker, 1853) Supports the Peripheral Origin of Marine Biodiversity in the Indo-Australian Archipelago. *Molecular Phylogenetics and Evolution* 53: 335–339.

#### **James Parham**

Papenfuss, T.J., T. Jackman, A. Bauer, B.L. Stuart, M.D. Robinson, and **J. F. Parham**. (2009). Phylogenetic relationships among species in the sphaerodactylid genus *Pristurus*. *Proceedings of the California Academy of Sciences* 60(19): 675–681.

**Parham, J. F.**, and T.J. Papenfuss. (2009). Evidence for high genetic diversity among fossorial lizard populations (*Anniella pulchra*) in a rapidly developing landscape (Central California). *Conservation Genetics* 10(1): 169–176.

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#### **Richard H. Ree**

Santos, J. C., Coloma, L. A., Summers, K., Caldwell, J.P., **Ree, R. H.** and D. C. Cannatella. (2009). Amazonian amphibian diversity is primarily derived from late Miocene Andean lineages. *PLoS Biology* 7(3): e56, doi:10.1371/journal.pbio.1000056.

**Ree, R. H.** and I. Sanmartin. (2009). Prospects and challenges for parametric models in historical biogeographical inference. *Journal of Biogeography* doi 10.1111/j.1365-2699.2008.02068.x.

#### **Jason Weckstein**

Butler, C., **Weckstein, J.**, Johnson, K.P., Bates, J.M., and Gordon, C.E. (2009). Comparative phylogenetic histories of two louse genera found on *Catharus* thrushes and other birds. *Journal of Parasitology* 95(2): 295–307.

**Weckstein, J.**, Marks, B.D., Moyle, R.G., Johnson, K.P., Meyer, M.J., Braimah, J., Oppong, J., and Amponsah, J. (2009). Birds recorded from surveys in Ghana's central and Brong-Ahafo regions. *Malimbus* 31: 28–46.

#### **Mark W. Westneat**

Cooper, W. J., Smith, L. L., **Westneat, M. W.** (2009). Exploring the radiation of a diverse reef fish family: Phylogenetics of the damselfishes (Pomacentridae), with new classifications based on molecular analyses of all genera. *Molecular Phylogenetics and Evolution* 52: 1–16.

Cooper W. J. and **M. W. Westneat.** (2009). Form and function of damselfish skulls: rapid and repeated evolution into a limited number of trophic niches. *BMC Evolutionary Biology* 2009(9): 24, doi: 10.1186/1471-2148-9-24.

### **PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

#### **Kevin A. Feldheim**

Chapman, D.D., E.A. Babcock, S.H. Gruber, J.D. DiBattista, B.R. Franks, S.A. Kessel, T. Guttridge, E.K. Pritch, and **K. A. Feldheim.** (2009). Long-term natal site-fidelity by immature lemon sharks (*Negaprion brevirostris*) at a subtropical island. *Molecular Ecology* 18: 3500–3507.

Voight, J.R. and **K. A. Feldheim.** (2009). Microsatellite inheritance and multiple paternity in the deep-sea octopus *Graneledone boreopacifica* (Mollusca: Cephalopoda). *Invertebrate Biology* 128: 26–30, doi: 10.1111/j.1744-7410.2008.00152.x.

DiBattista, J.D., **K. A. Feldheim,** D. Garant, S.H. Gruber, and A.P. Hendry. (2009). Evolutionary potential of a large marine vertebrate: Quantitative genetic parameters in a wild population. *Evolution* 64: 1051–1067, doi: 10.1111/j.1558-5646.2008.00605.x.

Schmidt, J.V., C.L. Schmidt, F. Ozer, R.E. Ernst, **K. A. Feldheim,** M.V. Ashley, and M. Levine. (2009). Low Genetic Differentiation across Three Major Ocean Populations of the Whale Shark, *Rhincodon typus*. *PLoS ONE* 4: e4988, doi: 10.1371/journal.pone.0004988.

Hipp, A.L., K.K. Kettenring, **K. A. Feldheim,** and J.A. Weber. (2009). Isolation of 11 polymorphic tri- and

tetranucleotide microsatellite loci in a North American sedge (*Carex scoparia*: Cyperaceae) and cross-species amplification in three additional *Carex* species. *Molecular Ecology Resources* 9: 625–627, doi: 10.1111/j.1755-0998.2008.02480.x.

Ribeiro, Â, P. Lloyd, **K. A. Feldheim**, and R.C.K. Bowie. (2009). Microsatellites in the Karoo Scrub-robin, *Cercotrichas coryphaeus* (Aves): Isolation and characterization of 13 autosomal and two sex-linked loci. *Molecular Ecology Resources* 9: 636–638, doi: 10.1111/j.1755-0998.2008.02489.x.

**Feldheim, K. A.**, P.J. Sanchez, W.A. Matamoros, J.F. Schaefer, and B.R. Kreiser. (2009). Isolation and characterization of microsatellite loci for mountain mullet (*Agonostomus monticola*). *Molecular Ecology Resources* 9: 1482–1484, doi: 10.1111/j.1755-0998.2009.02689.x.

**Feldheim, K. A.**, P. Willink, J.E. Brown, D.J. Murphy, M.E. Neilson, C.A. Stepien. (2009). Microsatellite loci for Ponto-Caspian gobies: markers for assessing exotic invasions. *Molecular Ecology Resources* 9: 639–644, doi: 10.1111/j.1755-0998.2008.02495.x.

Moyer, G.R., B.L. Sloss, B.R. Kreiser, **K. A. Feldheim**. (2009). Isolation and characterization of microsatellite loci for alligator gar (*Atractosteus spatula*) and their variability in two other species (*Lepisosteus oculatus* and *L. osseus*) in the Family Lepisosteidae. *Molecular Ecology Resources* 9: 963–966, doi: 10.1111/j.1755-0998.2009.02519.x.

#### **Erin Sackett-Hermann**

I. Schmitt, A. Crespo, P.K. Divakar, J.D. Fankhauser, **E. Sackett-Hermann**, K. Kalb, M.P. Nelsen, N.A. Nelson, E. Rivas-Plata, A.D. Shimp, T. Wildhelm, H.T. Lumbsch. (2009). New Primers for Promising Single-Copy Genes in Fungal Phylogenetics and Systematics. *Persoonia* 23: 35–40.



## **ACTIVE GRANTS**

### **DEPARTMENT OF ANTHROPOLOGY**

#### **Gordon Ambrosino**

PI: Helen Robbins  
Agency: National Park Service; NAGPRA  
Project: Consultation with the Navajo Nation  
Period: Jul 06–Jan 09  
Amount: \$21,225

Co-PI: Helen Robbins  
Agency: National Park Service; NAGPRA  
Project: Consultation with the Nome and Wales Eskimo communities of Alaska  
Period: Jun 07–Jan 09  
Amount: \$34,326

#### **L. Antonio Curet**

Co-PI: Will Pestle  
Agency: National Science Foundation  
Project: Diet and social stratification in ancient Puerto Rico  
Period: Jul 06–Dec 09  
Amount: \$149,720

Co-PI: Will Pestle  
Agency: National Science Foundation  
Project: Household and Social Change in Ancient Puerto Rico  
Period: Jun 09–May 11  
Amount: \$158,898

#### **Laure Dubussieux**

Co-PI: Ryan Williams  
Agency: National Science Foundation  
Project: Development of adaptable cell LA-ICP-MS and support for external collaborations in the elemental analysis facility at The Field Museum  
Period: Sep 08–Jul 11  
Amount: \$177,268

Co-PI: Ryan Williams  
Agency: National Science Foundation  
Project: Basalt sourcing in the Andean Altiplano: An REU supplement to BCS-0818401  
Period: Jul 09–Jun 10  
Amount: \$177,268

#### **Gary M. Feinman**

PI: Deborah Bekken; Co-PI: Karen Wilson  
Agency: Department of Defense  
Project: Iraq Cultural Heritage—The Kish Collection  
Period: Aug 06–Jul 10  
Amount: \$976,000

Co-PI: None  
Agency: National Geographic Society  
Project: 2008 Excavations at El Palmillo, Oaxaca, Mexico  
Period: Feb 08–Jan 09

Amount: \$8,000

**Jonathan Haas**

Co-PI: Winifred Creamer

Agency: National Science Foundation

Project: Collaborative research: Residential variability as an indicator of social complexity in the late Archaic (3000 to 1800 BC) in the Fortaleza Valley, Peru

Period: Jul 06–Jun 09

Amount: \$115,046

Co-PI: none

Agency: Philanthropic Collaborative

Project: Americas research

Period: Apr 06–Mar 09

Amount: \$300,000

**Chapurukha M. Kusimba**

PI: Sibel Kusimba

Agency: National Science Foundation

Project: Archaeology and ethnography of Mount Elgon

Period: Apr 07–Mar 09

Amount: \$129,010

**Debbie Linn**

PI: Ruth Norton

Agency: Institute for Museum and Library Studies

Project: Conservation treatment of 159 Chinese rubbings

Period: Jul 07–Jun 09

Amount: \$75,000

**Ruth E. Norton**

Co-PI: Anne Underhill

Agency: The Blakemore Foundation

Project: Chinese Rubbings Phase II

Period: Jul 07–Jun 09

Amount: \$20,000

Co-PI: Anne Underhill

Agency: E. Rhodes and Leona B. Carpenter Foundation

Project: Chinese Rubbings Phase II

Period: Jul 07–Jun 09

Amount: \$50,000

Co-PI: Debbie Linn

Agency: Institute for Museum and Library Studies

Project: Conservation treatment of 159 Chinese rubbings

Period: Jul 07–Jun 09

Amount: \$75,000

PI: Helen Robbins

Agency: National Park Service; NAGPRA

Project: Artifact testing for return to Navajo Nation

Period: Jul 07–Jan 10

Amount: \$21,408

**William A. Parkinson**

Co-PI: none

Agency: America for Bulgaria Foundation

Project: Advancing archaeological and anthropological research in southeastern Europe

Period: May 09–May 10

Amount: \$159,500

Co-PI: Timothy Parsons

Agency: National Science Foundation

Project: DDIG: Migration or adoption? Modeling the late Copper Age on the Great Hungarian Plain

Period: Jun 09–May 10

Amount: \$15,000

Co-PI: Hanneke Hoekman-Sites

Agency: National Science Foundation

Project: DDIG: Resource intensification in early village societies: dairying on the Great Hungarian Plain

Period: Sep 09–Aug 10

Amount: \$15,000

Co-PI: none

Agency: National Science Foundation

Project: Early Village Social Dynamics: Prehistoric Settlement Nucleation on the Great Hungarian Plain

Period: Sep 09–Aug 12

Amount: \$231,312

**James Phillips**

Co-PI: Anne Underhill

Agency: U.S. Department of State

Project: Training for Iraqi Museum Professionals

Period: Jan 09–Dec 10

Amount: \$1,200,000

Co-PI: none

Agency: U.S. Department of State

Project: Internships for Iraqi museum professional residencies

Period: Jan 11–Dec 12

Amount: \$391,450

**Helen Robbins**

Co-PI: Gordon Ambrosino

Agency: National Park Service; NAGPRA

Project: Consultation with the Navajo Nation

Period: Jul 06–Jan 09

Amount: \$21,225

Co-PI: Gordon Ambrosino

Agency: National Park Service; NAGPRA

Project: Consultation with the Nome and Wales Eskimo communities of Alaska

Period: Jun 07–Jan 09

Amount: \$34,326

Co-PI: Ruth Norton

Agency: National Park Service; NAGPRA

Project: Artifact testing for return to Navajo Nation

Period: Jul 07–Jan 10

Amount: \$21,408

Co-PI: none  
Agency: National Park Service; NAGPRA  
Project: Repatriation of White Mountain Apache material  
Period: Mar 08–Jun 09  
Amount: \$13,960

Co-PI: none  
Agency: National Park Service; NAGPRA  
Project: XRF testing of Zuni items located at The Field Museum  
Period: Oct 08–Mar 10  
Amount: \$34,430

**Anne P. Underhill**

PI: Ruth Norton  
Agency: The Blakemore Foundation  
Project: Chinese Rubbings Phase II  
Period: Jul 07–Jun 09  
Amount: \$20,000

PI: Ruth Norton  
Agency: E. Rhodes and Leona B. Carpenter Foundation  
Project: Chinese Rubbings Phase II  
Period: Jul 07–Jun 09  
Amount: \$50,000

Co-PI: James Phillips  
Agency: U.S. Department of State  
Project: Training for Iraqi Museum Professionals  
Period: Jan 09–Dec 10  
Amount: \$1,200,000

Co-PI: none  
Agency: National Endowment for the Arts  
Project: Stimulus grant for retention of conservation staff  
Period: Jul 09–Jun 10  
Amount: \$50,000

Co-PI: Laura Junker  
Agency: Henry Luce Foundation  
Project: Subaward to: Southeast Asian archaeology academic training and collaborative research partnership  
Period: Jul 09–Jun 13  
Amount: \$20,000

Co-PI: none  
Agency: National Science Foundation  
Project: Investigating social, economic, and political reorganization of the Liangchengzhen polity, Southeastern Shandong, China  
Period: Aug 09–Jul 10  
Amount: \$20,914

**Patrick Ryan Williams**

Co-PI: Laure Dubussieux  
Agency: National Science Foundation  
Project: Development of adaptable cell LA-ICP-MS and support for external collaborations in the elemental analysis facility at The Field Museum

Period: Sep 08–Jul 11  
Amount: \$177,268

Co-PI: Nicola Sharratt  
Agency: National Science Foundation  
Project: DDIG: Coping with collapse—the effects of political decline on social identities  
Period: Sep 09–Aug 10  
Amount: \$9,743

Co-PI: Sofia Chacaltana  
Agency: National Science Foundation  
Project: DDIG: Mechanics of Empire and Integration—the role of small-scale Inca installations in the Colesuyo region  
Period: Nov 09–Oct 10  
Amount: \$19,990

**Karen Wilson**

PI: Deborah Bekken; Co-PI: Gary Feinman  
Agency: Department of Defense  
Project: Iraq Cultural Heritage—The Kish Collection  
Period: Aug 06–Jul 09  
Amount: \$976,000

**DEPARTMENT OF BOTANY**

**Michael O. Dillon**

Co-PI: none  
Agency: The Mellon Foundation  
Project: Latin American plants  
Period: Jan 07–May 10  
Amount: \$337,000

**John Engel**

Co-PI: Matt von Konrat  
Agency: National Science Foundation  
Project: Collaborative Research: AToL: Assembling the liverwort tree of life: A window into the evolution and diversification of early plants  
Period: Jan 06–Dec 10  
Amount: \$101,348

Co-PIs: Robert Lücking, Thorsten Lumbsch, Matt von Konrat  
Agency: National Science Foundation  
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K Bryophyte and lichen conversion and digitization project  
Period: Jan 08–Dec 10  
Amount: \$349,283

Co-PIs: Matt von Konrat  
Agency: National Science Foundation  
Project: Collaborative research on the Marchantiophyta, Anthoceroophyta and Bryophyta of the cape horn archipelago: Floristics and implications for conservation  
Period: Jul 10–Jun 14  
Amount: \$210,000



**Sabine M. Huhndorf**

Co-PI: none

Agency: National Science Foundation

Project: Studies in the Lasiosphaeriaceae II: Monograph of Podospora and Phylogeny of Lasiosphaeria/Sordariaceae Group

Period: Sep 01–Aug 09

Amount: \$744,579

**Robert Lücking**

PI: Thorsten Lumbsch

Agency: National Science Foundation

Project: Phylogeny and taxonomy of ostropalean Fungi, with emphasis on the Lichen-forming Thelotremaaceae

Period: Sep 05–Aug 09

Amount: \$281,325

Co-PI: none

Agency: National Science Foundation

Project: NEOTROPICAL EPIPHYTIC MICROLICHENS—An innovative inventory of a highly diverse yet little known group of symbiotic organisms

Period: Oct 07–Sep 10

Amount: \$448,873

**H. Thorsten Lumbsch**

Co-PI: Robert Lücking

Agency: National Science Foundation

Project: Phylogeny and taxonomy of ostropalean Fungi, with emphasis on the Lichen-forming Thelotremaaceae

Period: Sep 05–Aug 09

Amount: \$281,325

Co-PI: Conrad Schoch

Agency: National Science Foundation

Project: Systematics of the Dothideomycetes

Period: Jul 07–Jun 10

Amount: \$12,000

Co-PIs: John Engel, Robert Lücking, Matt Von Konrat

Agency: National Science Foundation

Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K Bryophyte and lichen conversion and digitization project

Period: Jan 08–Dec 10

Amount: \$349,283

**Joanna McCaffrey**

PI: Carl Dick

Co-PIs: Al Newton, Bruce Patterson

Agency: National Science Foundation

Project: Bat flies like an E-Mu: Digitization, conversion, and accessibility of The Field Museum's bat fly collection

Period: Feb 06–Jan 09

Amount: \$406,912

Co-PIs: Bill Barnett, Deborah Bekken

Agency: Institute of Museum and Library Services

Project: Common Ground

Period: Jul 05–Jun 09  
Amount: \$796,000

**Richard H. Ree**

Co-PI: none  
Agency: National Science Foundation  
Project: REVSYS: Classification, phylogeny, and biogeography of *Corydalis* (Fumariaceae)  
Period: Sep 06–Aug 09  
Amount: \$249,912

Co-PI: Greg Mueller, Jun Wen  
Agency: John D and Catherine T. MacArthur Foundation  
Project: Building Capacity for Biodiversity Research, Conservation, and Education in Eastern Himalaya  
Period: Oct 02–Feb 09  
Amount: \$480,000

**Matt von Konrat**

PI: John Engel  
Agency: National Science Foundation  
Project: Collaborative Research: ATOL: Assembling the liverwort tree of life: A window into the evolution and diversification of early plants  
Period: Jan 06–Dec 10  
Amount: \$101,348

Co-PI: none  
Agency: Global Biodiversity Information Facility  
Project: Early land plants today: Uniting liverwort taxonomy, nomenclature, and geography  
Period: Jan 08–Jun 09  
Amount: \$60,319

Co-PIs: John Engel, Robert Lücking, Thorsten Lumbsch  
Agency: National Science Foundation  
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K Bryophyte and lichen conversion and digitization project  
Period: Jan 08–Dec 10  
Amount: \$349,283

Co-PIs: John Engel  
Agency: National Science Foundation  
Project: Collaborative research on the Marchantiophyta, Anthocerotophyta and Bryophyta of the Cape Horn archipelago: Floristics and implications for conservation  
Period: Jul 10–Jun 14  
Amount: \$210,000

**DEPARTMENT OF GEOLOGY**

**Lance Grande**

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative Research: Integrated study of an exceptional avifauna from the Eocene Green River Formation: New data on avian evolution and taphonomy  
Period: Aug 07–Aug 10  
Amount: \$49,994

Co-PI: Eric Hilton  
Agency: National Science Foundation  
Project: Comparative osteology and phylogenetic systematics of fossil and living sturgeons (Actinopterygii, Acipenseriformes), part 2  
Period: Sep 04–Aug 09  
Amount: \$185,076

Co-PI: Eric Hilton  
Agency: National Science Foundation  
Project: Supplement to: Comparative osteology and phylogenetic systematics of fossil and living sturgeons (Actinopterygii, Acipenseriformes), part 2  
Period: Sep 04–Aug 09  
Amount: \$7,780

**Peter J. Makovicky**

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative Research: Archosaur Phylogeny—a Total Evidence Approach at Fine Taxonomic Level  
Period: Sep 02–Sep 09  
Amount: \$93,525

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative research: The role of development and life history traits in the evolution of ceratopsian dinosaurs  
Period: Sep 04–Aug 10  
Amount: \$99,292

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative research: New research on the Mesozoic vertebrate faunas of the Beardmore Glacier region, Antarctica  
Period: Sep 09–Aug 12  
Amount: \$212,791

Co-PI: Petra Sierwald  
Agency: National Science Foundation  
Project: REU Site: Networked Access to Systematic Resources for Undergraduates in Chicagoland  
Period: Jun 09–May 12  
Amount: \$258,464

**Olivier C. Rieppel**

Co-PI: Maureen Kearney  
Agency: National Science Foundation  
Project: ATOL: Collaborative research: The deep scaly project: Resolving squamate phylogeny using genomic and morphological approaches  
Period: Jan 04–Dec 09  
Amount: \$553,414

**DEPARTMENT OF ZOOLOGY**

**John M. Bates**

Co-PIs: Dan Brinkmeier, Shannon Hackett, Panta Kasoma, Julian Kerbis, Derek Pomeroy, David Willard  
Agency: MacArthur Foundation

Project: Collaborative Biodiversity Research and Training in Uganda and the Democratic Republic of Congo  
Period: Jan 01–Jan 09  
Amount: \$455,000

PI: Jason Weckstein  
Agency: National Science Foundation  
Project: Bridging micro and macroevolutionary history: Population genetics of coevolutionary history  
Period: Aug 05–Jul 09  
Amount: \$344,305

PI: Jason Weckstein  
Agency: National Science Foundation  
Project: REU supplement to DEB-0515672: Bridging Micro and Macroevolutionary Patterns: Population Genetics of Coevolutionary History  
Period: Jun 07–Jul 09  
Amount: \$6,000

Co-PIs: Shannon Hackett, Bill Stanley  
Agency: Centers for Disease Control  
Project: Donation of equipment  
Period: Jan 09–Dec 09  
Amount: \$50,000

Co-PI: Julian Kerbis  
Agency: John D. and Catherine T. MacArthur Foundation  
Project: Climate change in the Albertine Rift: Effects on genetic diversity of hosts and their disease-carrying parasites  
Period: Jun 10–May 12  
Amount: \$330,050

**Rüdiger Bieler**

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative Research: ATOL: Phylogeny on the half-shell—Assembling the Bivalve Tree of Life  
Period: Jan 08–Aug 12  
Amount: \$1,345,017

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative Research: REVSYS: Worm snails revised (Mollusca: Gastropoda)  
Period: Mar 09–Feb 12  
Amount: \$250,000

Co-PI: Paula Mikkelsen  
Agency: National Science Foundation  
Project: Collaborative Research: Bivalves in time and space: Testing the accuracy of methods to reconstruct ancestral morphology, dates, geography, and diversification patterns  
Period: Aug 09–Jul 12  
Amount: \$332,425

**Steven M. Goodman**

Co-PI: none  
Agency: The Beneficia Foundation  
Project: Ecology of Myzopoda schliemanni: A poorly known family of bats endemic to western Madagascar

Period: Apr 07–Dec 09  
Amount: \$30,000

Co-PI: none

Agency: The John D. and Catherine T. MacArthur Foundation

Project: Continued capacity building for Malagasy conservation biologists: Support for Vahatra

Period: Sep 07–Dec 10

Amount: \$325,000

Co-PI: none

Agency: Critical Ecosystem Partnership Fund

Project: Support to the Malagasy international association Vahatra

Period: Jul 09–Jun 11

Amount: \$214,391

Co-PI: none

Agency: The John D. and Catherine T. MacArthur Foundation

Project: Climate Change on Madagascar

Period: Nov 09–Oct 12

Amount: \$400,000

### **Shannon J. Hackett**

Co-PI: none

Agency: National Science Foundation

Project: Collaborative Research: Early Bird: A Collaborative Project to Resolve the Deep Nodes of Avian Phylogeny

Period: Oct 02–Sep 10

Amount: \$900,695

Co-PI: Sushma Reddy

Agency: National Science Foundation

Project: Collaborative Research: Avian diversification across tropical Asia: a systematic and biogeographic analysis of babblers (Aves: Timaliidae)

Period: Jan 08–Dec 10

Amount: \$219,999

Co-PI: Elizabeth Babcock

Agency: National Institutes of Health (Univ. of Chicago)

Project: Subaward: Center for transcriptional network dynamics and evolution

Period: Sep 08–Aug 12

Amount: \$202,747

### **Larry R. Heaney**

Co-PI: Bill Stanley

Agency: National Science Foundation

Project: Collaborative Research: Curation, Data Basing, and Integration of the Orphaned Illinois Mammal Collection

Period: Jan 08–Mar 10

Amount: \$32,998

### **Alfred F. Newton**

PI: Margaret Thayer

Agency: National Science Foundation

Project: PEET: Monography, Phylogeny, and Historical Biogeography of Austral Staphylinidae (Coleoptera)

Period: Sep 01–Aug 09



Amount: \$719,831

Co-PIs: Carl Dick, Joanna McCaffrey, Bruce Patterson

Agency: National Science Foundation

Project: Bat flies like an E-Mu: Digitization, conversion, and accessibility of The Field Museum's bat fly collection

Period: Feb 06–Jan 09

Amount: \$406,912

Co-PI: Alexey Solodovnikov

Agency: National Science Foundation

Project: Collaborative Research: Phylogenetic reclassification and generic revision of the rove beetle tribe Staphylinini (Insecta: Coleoptera: Staphylinidae)

Period: Sep 07–Aug 10

Amount: \$114,742

### **Bruce D. Patterson**

Co-PIs: Samuel Kasiki, Alex Mwazo

Agency: Earthwatch

Project: Behavior and ecology of lions and biodiversity in Tsavo's arid woodlands

Period: Jan 09–Dec 09

Amount: \$156,620

PI: Carl Dick

Co-PIs: Joanna McCaffrey, Al Newton

Agency: National Science Foundation

Project: Bat flies like an E-Mu: Digitization, conversion, and accessibility of The Field Museum's bat fly collection

Period: Feb 06–Jan 09

Amount: \$406,912

PI: Carl Dick

Agency: National Science Foundation

Project: Collaborative Research: Phylogeny of the bat flies of the world—insights into trends in host associations and ectoparasitism

Period: Apr 07–Mar 10

Amount: \$199,998

### **Sushma Reddy**

Co-PI: Shannon Hackett

Agency: National Science Foundation

Project: Collaborative Research: Avian diversification across tropical Asia: a systematic and biogeographic analysis of babblers (Aves: Timaliidae)

Period: Jan 08–Apr 11

Amount: \$219,999

### **Petra Sierwald**

Co-PI: Jason Bond

Agency: National Science Foundation

Project: The Diplopoda: Systematics research, training and tools

Period: Jan 06–Dec 10

Amount: \$748,955

Co-PI: Norman Platnick

Agency: National Science Foundation

Project: PBI—Collaborative Research: The megadiverse, microdistributed spider family Oonopidae

Period: Sep 06–Aug 11  
Amount: \$62,166

Co-PI: Peter Makovicky  
Agency: National Science Foundation  
Project: REU Site: Networked Access to Systematic Resources for Undergraduates in Chicagoland  
Period: Jun 09–May 12  
Amount: \$258,464

**Leo Smith**

Co-PI: none  
Agency: National Science Foundation  
Project: Collaborative Research: Assembling the Euteleost Tree of Life—Addressing the Major Unresolved Problem in Vertebrate Phylogeny  
Period: Oct 07–Sep 12  
Amount: \$261,598

Co-PI: none  
Agency: National Science Foundation; subcontract through Yale  
Project: Collaborative Research: Phylogenetics and key innovations in labroid fishes  
Period: Aug 07–Jul 10  
Amount: \$12,500

Co-PI: none  
Agency: Institute of Museum and Library Services  
Project: Providing long-term security and access to genetic resources at Field Museum  
Period: Aug 09–Jul 10  
Amount: \$119,803

**William T. Stanley**

PI: Larry Heaney  
Agency: National Science Foundation  
Project: Collaborative Research: Curation, Data Basing, and Integration of the Orphaned Illinois Mammal Collection  
Period: Jan 08–Dec 09  
Amount: \$32,998

Co-PI: None  
Agency: Wildlife Conservation Society  
Project: Educational outreach production  
Period: Jan 09–Dec 09  
Amount: \$30,000

**Margaret Thayer**

Co-PI: none  
Agency: National Science Foundation  
Project: Staphyliniformia section of Assembling the Beetle Tree of Life (BTOL)  
Period: Oct 05–Sep 09  
Amount: \$125,951

Co-PI: Al Newton  
Agency: National Science Foundation  
Project: PEET: Monography, Phylogeny, and Historical Biogeography of Austral Staphylinidae (Coleoptera)  
Period: Sep 01–Aug 09  
Amount: \$719,831

**Janet R. Voight**

Co-PI: None  
Agency: ChEss  
Project: Database sharing with ChEssBase  
Period: Jan 09–Dec 09  
Amount: \$9,743

**Harold K. Voris**

Co-PI: Robert Inger  
Agency: The John D. and Catherine T. MacArthur Foundation  
Project: Herpetological biodiversity and biogeography in the lower Mekong river basin  
Period: May 06–Apr 09  
Amount: \$305,000

**Mark W. Westneat**

Co-PI: none  
Agency: National Science Foundation  
Project: Phylogenetic relationships and the evolution of skull mechanisms in perciform coral reef fishes  
Period: Mar 09–Feb 12  
Amount: \$400,000

Co-PI: none  
Agency: National Science Foundation  
Project: Subaward: IGERT: Integrative training in motor control and movement  
Period: Jun 09–May 13  
Amount: \$36,526

**OFFICE OF COLLECTIONS AND RESEARCH****Deborah Bekken**

PI: Joanna McCaffrey  
Co-PI: Bill Barnett  
Agency: Institute of Museum and Library Services  
Project: Common Ground  
Period: Jul 05–Jun 09  
Amount: \$796,000

Co-PI: none  
Agency: Department of Commerce and Economic Opportunity  
Project: Local match for Museum Campus roadway improvements (traffic circle)  
Period: Jul 06–Mar 10  
Amount: \$100,000

Co-PIs: Gary Feinman, Karen Wilson  
Agency: Department of Defense  
Project: Iraq Cultural Heritage—The Kish Collection  
Period: Aug 06–Jul 10  
Amount: \$976,000

Co-PI: none  
Agency: Illinois Arts Council  
Project: IAC General Operating Support 2009  
Period: Sep 08–Aug 09  
Amount: \$54,040

Co-PI: none  
Agency: City of Chicago Department of Cultural Affairs  
Project: CityArts Program IV—2009  
Period: Jan 09–Dec 09  
Amount: \$7,000

Co-PI: none  
Agency: Illinois Arts Council  
Project: IAC General Operating Support 2010  
Period: Sep 09–Aug 10  
Amount: \$27,000

## **BIODIVERSITY SYNTHESIS CENTER**

### **Audrey Aronowsky**

Co-PI: Elizabeth Babcock  
Agency: MacArthur Foundation  
Project: WhyReef: merging natural science research with virtual learning  
Period: 2008–2009  
Amount: \$308,000

### **Torsten Dikow**

Co-PI: none  
Agency: National Science Foundation  
Project: REVSYS: Phylogeny, revisionary taxonomy & the fossil record of asiloid flies (Diptera: Apioceridae, Asilidae, Mydidae)  
Period: Aug 09–Jul 12  
Amount: \$382,628

### **Joshua Drew**

Co-PI: none  
Agency: National Science Foundation  
Project: Fellowship grant  
Period: Sep 08–Aug 11  
Amount: \$10,000

### **Jason D. Weckstein**

Co-PI: John Bates  
Agency: National Science Foundation  
Project: Bridging micro and macroevolutionary history: Population genetics of coevolutionary history  
Period: Aug 05–Jul 09  
Amount: \$344,305

Co-PI: John Bates  
Agency: National Science Foundation  
Project: REU supplement to DEB-05156752, Bridging micro and macroevolutionary history: Population genetics of coevolutionary history  
Period: Aug 05–Jul 09  
Amount: \$6,250

Co-PI: John Bates  
Agency: National Science Foundation  
Project: REU supplement to DEB-0515672, Bridging Micro and Macroevolutionary Patterns: Population Genetics of Coevolutionary History  
Period: Jun 07–Jul 09

Amount: \$6,000

Co-PI: John Bates

Agency: National Science Foundation

Project: REU supplement to DEB-0515672, Bridging Micro and Macroevolutionary Patterns: Population Genetics of Coevolutionary History

Period: Jun 08–Jul 09

Amount: \$7,000

Co-PI: John Bates

Agency: National Science Foundation

Project: REU supplement to DEB-0515672, Bridging Micro and Macroevolutionary Patterns: Population Genetics of Coevolutionary History

Period: Jun 08–Jul 09

Amount: \$15,000

**Mark Westneat**

Co-PI: none

Agency: The John D. and Catherine T. MacArthur Foundation; subcontract through Smithsonian

Project: Biodiversity Synthesis Center

Period: Jul 07–Jun 09

Amount: \$1,500,000

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

**Kevin A. Feldheim**

Co-PI: Samuel Gruber

Agency: National Science Foundation

Project: Collaborative Research: A comparison of the mating system and evolutionary potential of lemon sharks, *Negaprion brevirostris* (Poey), at two nursery sites in the western Atlantic

Period: Feb 07–Jan 11

Amount: \$206,282

Co-PI: none

Agency: National Marine Fisheries Service

Project: Microsatellite DNA analysis of population structure, genetic diversity and natal-site fidelity of smalltooth sawfish (*Pristis pectinata*) in southwest Florida

Period: Jan 09–Dec 09

Amount: \$7,800

**COLLABORATIVE PARTNERSHIPS—Fiscal Agent other than Field Museum**

**Kenneth D. Angielczyk**

Co-PI: J.-S. Steyer

Agency: National Geographic Society

Project: Exploring Permian and Triassic Terrestrial Communities in Zambia: Deciphering Local and Global Causes for the Largest Mass Extinction

Period: Jan 08–Dec 09

Amount: \$19,998

**Olivier C. Rieppel**

Co-PI: Thorsten Scheyer

Agency: Swiss National Science Foundation



Project: Phylogenetic relationships of placodont reptiles (Diapsida, Sauropterygia) as evidenced by 3D imaging, bone histology, and developmental data  
Period: Jan 10–Dec 13  
Amount: \$230,000

Co-PI: Thorsten Scheyer  
Agency: Swiss National Science Foundation  
Project: Phylogenetic relationships of placodont reptiles (Diapsida, Sauropterygia) as evidenced by 3D imaging, bone histology, and developmental data  
Period: Jan 10–Dec 13  
Amount: \$230,000

Co-PI: J. Jiang, R. Motani, A. Tintori  
Agency: Chinese National Science Foundation  
Project: Radiation bio-event sequence of marine reptile faunas and global migratory-evolutionary pattern within the course from early recovery to radiated reconstruction of Early-Middle Triassic ecosystem after the end-Permian Mass Extinction  
Period: Jan 10–Dec 13  
Amount: ¥1,400,000

Co-PI: J.D. Jiang, R. Motani, A. Tintori  
Agency: National Geographic Society  
Project: Testing the rapid diversification and origins of the earliest Mesozoic marine reptiles in the Lower Triassic of Chaohu, China  
Period: Jan 10–Dec 10  
Amount: \$18,000

**Petra Sierwald**

Co-PI: Pat Herendeen  
Agency: National Science Foundation  
Project: Future Directions in Systematic Biology and Biodiversity Surveys and Inventories Research (meetings held at Chicago Botanic Garden)  
Period: Jun 09–May 11  
Amount: \$100,000

## **CONFERENCES, SYMPOSIA, WORKSHOPS AND INVITED LECTURES, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

#### **Daniela Bono**

American Association of Museum's Annual Conference 2009, Philadelphia, PA; Invited lecturer, Freedom Museum and National Hellenic Museum.

#### **J. P. Brown**

Andrew J. Mellon Research In Information Technology Program ConservationSpace Design Symposium: Metropolitan Museum of Art, New York; KE-EMu North American User Group Meeting: Minnesota Historical Society, St Paul, MN; Invited lecturer, Salahaddin University Dept. of Archaeology, Erbil, Iraq; Invited lecturer, Chicago Council on Science & Technology, Art Institute of Chicago.

#### **L. Antonio Curet**

74<sup>th</sup> Annual Meeting of the Society for American Archaeology, Atlanta; Invited lecturer, Department of Anthropology, University of Yale; Keynote speaker, VIII Encuentro de Investigadores, Instituto de Cultura Puertorriqueña, San Juan, Puerto Rico.

#### **Laure Dussubieux**

Les innovations verrières et leur devenir, Epoque antique-XXI<sup>e</sup> siècle, Nancy, France; Invited lecturer, Society for Applied Spectroscopy; Invited lecturer, Federation of Analytical Chemistry and Spectroscopy Societies conference, Louisville, KY; Conference on South Asia, Madison, WI; Invited lecturer, PIXE group, University of Notre Dame, IN.

#### **Gary M. Feinman**

Annual Meeting of the American Association for the Advancement of Science, Chicago; International Conference on Environmental and Social Changes in Ancient China, Shandong University, Jinan, China (3 presentations); Sage King Yaowang Culture Forum, Rizhao, China; Quinta Mesa Redonda de Monte Albán, Oaxaca, Mexico; 32<sup>nd</sup> Annual Midwest Mesoamericanists Conference, Chicago; Symposia organizer, Annual Meeting of the American Association for the Advancement of Science, Chicago.

#### **Chapurukha M. Kusimba**

Invited lecturer, National Museums of Kenya, Nairobi and Mombasa.

#### **Robert D. Martin**

Invited presenter, Columbia College, at The Field Museum; Invited lecturer, Division of Endocrinology, Metabolism, and Molecular Medicine, Northwestern University Feinberg School of Medicine, IL; Invited lecturer, "Trees of Life," Morton Arboretum, Lisle, IL; Co-organizer, "Origins of Complex Societies in Primates and Humans: From Primatology to Archeology" symposium, Annual Meeting of the American Association for the Advancement of Science, Chicago, IL; Invited lecturer, "Evolution und Kultur des Menschen" colloquium, European Academy, Otzenhausen/Nonnweiler, Germany; Presenter, Guest lecturer, University of Chicago; Anthropology Alliance and the Council on Africa, The Field Museum; Invited lecturer, "Faktum Evolution: Gesellschaftliche Wahrnehmung und Bedeutung" symposium, Natural History Museum, Vienna, Austria; Invited lecturer, Earth Science Club of Northern Illinois, College of Dupage, Glen Ellyn, IL; Invited lecturer, Montgomery Place Residents' Association, Chicago; Guest lecturer, Department of Anthropology, University of Illinois at Chicago; Invited presenter, Steppenwolf Garage/in connection with the play *Fake*, Chicago; Invited presenter, "Hedge Fund Research Summit: Outlook 2010," Peninsula Chicago Hotel, Chicago.

#### **Linda M. Nicholas**

International Conference on Environmental and Social Changes in Ancient China, Shandong University, Jinan, China (2 presentations); Sage King Yaowang Culture Forum, Rizhao, China; Quinta Mesa Redonda de Monte Albán, Oaxaca, Mexico.

**Ruth E. Norton**

Special Symposia on "Race and Malvina Hoffman" Getty Research Institute, Los Angeles, CA.

**John Edward Terrell**

Center for Advanced Studies, Norwegian Academy of Science and Letters, Oslo, Norway.

**Anne P. Underhill**

Conference on Environmental and Social Change in Ancient China, Center for East Asian Archaeology, Shandong University, China; The Significance of Yaowangcheng for Regional Survey, Rizhao, Shandong; Organized Cultural Property Workshop, The Field Museum.

**Alaka Wali**

Annual Meeting of the American Anthropological Association, Philadelphia, PA; Invited lecturer, Special Symposium, "Does the Environment Have a Right," University of Chicago; Special Symposia on "Race and Malvina Hoffman" Getty Research Institute, Los Angeles, CA; Invited lecturer, City University of New York, Graduate Center Department of Anthropology, New York, NY.

**Patrick Ryan Williams**

Presenter, 74<sup>th</sup> Annual Meeting of the Society for American Archaeology, Atlanta, GA; Presenter, Cyber-archaeology session, Theoretical Archaeology Group 2009 Meeting, Stanford University, Palo Alto, CA; Panelist, Illinois Conference Annual Meeting, American Association of University Professors, Roosevelt University, Chicago; Fellow, Fine Outreach for Science Workshop, Carnegie Mellon University, Pittsburgh, PA.

**DEPARTMENT OF BOTANY****Anna Balla**

Society for Economic Botany, Charleston, SC.

**Robert Lücking**

9<sup>th</sup> GLAL Meeting and NSF Tropical Lichen Workshop, Corrientes, Argentina; Tuckerman Workshop, Fakahatchee, Florida; NSF Tropical Lichen Workshop, Panama City, Panama; NSF Tropical Lichen Workshop, Managua, Nicaragua; NSF Tropical Lichen Workshop, San Salvador, El Salvador; NSF Tropical Lichen Workshop, Botucatu, Brazil; NSF Tropical Lichen Workshop, Cochabamba, Bolivia; NSF Tropical Lichen Workshop, Cuzco, Peru.

**Wyatt Gaswick**

Great Lakes Mycology Smith Foray, Camp Ondessonk, Ozark, IL.

**Sabine Huhndorf**

Mycological Society of America Annual Meeting, Snowbird, UT.

**Patrick Leacock**

Great Lakes Mycology Smith Foray, Camp Ondessonk, Ozark, IL.

**Thorsten Lumbsch**

III Reunión de la Iniciativa de Plantas de América Latina, Medellín, Colombia; Mycological Society of America Annual Meeting, Snowbird, UT.

**Joanna McCaffrey**

Invited presenter, North American EMu Users Group meeting, Saint Paul, MN.

**Christine Niezgoda**

Society for the Preservation of Natural History Collections (SPNHC), Leiden, The Netherlands; III Reunión de la Iniciativa de Plantas de América Latina, Medellín, Colombia.

**Richard H. Ree**

Invited lecturer: University of Zurich, University of Munich, University of Basel, University of Missouri-St. Louis, University of Mainz, University of Colorado-Boulder, Northeastern Illinois University; Keynote speaker, Southeast Asian Gateway Evolution, Royal Holloway University of London; Invited symposium speaker, International Biogeography Society, Merida, Mexico; "Treeviz II" workshop, Biodiversity Synthesis Center, The Field Museum; National Center for Ecological Analysis and Synthesis workshop, Santa Barbara, CA.

**Betty Strack**

Mycological Society of America and Botanical Society of America Annual Meetings, Snowbird, UT; Kew's 250<sup>th</sup> Anniversary/Plant Conservation Conference, Royal Botanic Garden, Kew, UK; International Fungal Conservation Meeting, Whitby, UK.

**Gayle Tonkovich**

Participant, National Geographic Society and National Park Service BioBlitz 2009, Indiana Dunes National Lakeshore, Porter, IN.

**Matt von Konrat**

Organizer and convener, Encyclopedia of Life Biosynthesis meeting: Early Land Plants Today, Field Museum; Invited speaker, Symposium on Bryophyte Conservation, International Association of Bryologists, Cape Town, South Africa; Chair, Symposium on Bryophyte Phylogeny and Systematics, International Association of Bryologists, Cape Town, South Africa.

**DEPARTMENT OF GEOLOGY****Kenneth D. Angielczyk**

Presenter, Annual Meeting of Society for Integrative and Comparative Biology, Boston, MA; Presenter and symposia co-organizer, 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Presenter, Gaffney Turtle Symposium, Drumheller, Canada; Presenter, Annual Meeting of Geological Society of America, Portland, OR; Encyclopedia of Life Synthesis Meeting, Bristol, UK. Invited lectures: Chicago Area Fall 2009 Biology Seminar, Benedictine University; Organismal Biology and Anatomy Seminar Series, University of Chicago; Annual Meeting of the Society for Integrative and Comparative Biology, San Antonio, TX; Annual Meeting of the Geological Society of America, Houston, TX; Evolutionary Morphology Seminar Series, Committee on Evolutionary Biology, University of Chicago; Department of Earth and Environmental Sciences, University of Illinois at Chicago.

**Marlene Hill Donnelly**

Invited lecturer, The Nature Artists' Guild; The Guild of Natural Science Illustrators Annual Conference, Fort Kent, MA.

**Jörg Fröbisch**

Invited speaker, A. Watson Armour III Seminar Series, Field Museum; Invited speaker, "New Perspectives on the Early Evolutionary History of the Synapsida" Symposium, 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Speaker, 79<sup>th</sup> Annual meeting of the Paläontologische Gesellschaft, Bonn, Germany.

**Ian Glasspool**

Presenter, joint paper, GSA North-Central Section—42<sup>nd</sup> Annual Meeting, Rockford, IL.

**Lisa Herzog**

Participant, Paleontology Conservation Unit tour, Natural History Museum, London UK; Participant, Conservators and Preparators Adhesives Workshop: Choice and Reason, Bristol, UK; 69<sup>th</sup> Annual Meeting of the Society for Vertebrate Paleontology, Bristol, UK.

**Scott Lidgard**

Darwin in the Twenty-First Century: Nature, Humanity, and God Symposium, University of Notre Dame, IN; 9<sup>th</sup> North American Paleontological Convention, University of Cincinnati, OH; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA; Origins: The Historical Sciences in the Age of Darwin, The Chicago-Max Planck Symposium, University of Chicago.

**Peter J. Makovicky**

69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Invited lecturer, Department of Geology, Northern Illinois University, DeKalb, IL; Invited lecturer, Department of Ecology and Evolution, Iowa State University, Ames, IA.

**Paul S. Mayer**

42<sup>nd</sup> Annual Meeting of the Geological Society of America North-Central Section, Rockford, IL; 9<sup>th</sup> North America Paleontological Convention, Cincinnati, OH; Darwin Conference, Chicago.

**Olivier Rieppel**

Questioning the Tree of Life, Dalhousie University, Halifax; Darwin in Science and Society, Swiss Academies of Arts and Sciences, University of Zürich; Darwin200-China Conference, Peking University, Beijing; Presenter, Evolutionary Morphology Seminar Series, University of Chicago; A. Watson Armour III Seminar Series, The Field Museum.

**Akiko Shinya**

Workshop co-presenter, 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol UK; 8<sup>th</sup> Conference on Fossil Resources, St. George, UT.

**William F. Simpson**

Participant, Conservators and Preparators Adhesives Workshop: Choice and Reason, Bristol, UK; 69<sup>th</sup> Annual Meeting of the Society for Vertebrate Paleontology, Bristol, UK.

**Paul Sipiera**

Invited lecturer, Adler Planetarium, Chicago.

**Nathan D. Smith**

127<sup>th</sup> Annual Meeting of the American Ornithologists' Union; 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Participant, Encyclopedia of Life Synthesis Meeting, Bristol, UK.

**Constance Van Beek**

69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK.

**Deborah Wagner**

Participant, Conservators and Preparators Adhesives Workshop: Choice and Reason, Bristol, UK; 69<sup>th</sup> Annual Meeting of the Society for Vertebrate Paleontology, Bristol, UK.

**Lindsay E. Zanno**

69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Advances in Western Interior Late Cretaceous Paleontology and Geology, St. George, UT. Invited lecturer: Burpee Museum, Rockford, IL; Earth Science Club of Northern Illinois, College of DuPage, IL; A. Watson Armour III, Seminar Series, The Field Museum.

**DEPARTMENT OF ZOOLOGY****John M. Bates**

Brazilian Ornithological Congress, Vitoria, Brazil; American Association for the Advancement of Science Annual Meetings, Chicago; Invited lecturer, Illinois Institute of Technology Biological



Colloquium; Plenary address, Brazilian Ornithological Congress, Vitoria, Brazil; Organization for Tropical Studies “Ecology and Conservation of Neotropical Birds,” Costa Rica.

**Rüdiger Bieler**

Invited participant, NSF workshop “Future of Systematics,” Chicago Botanic Garden; BioSynC database workshop, Munich, Germany; Bivalve-ATOL collaborators meeting, Museum of Comparative Zoology, Cambridge, MA (lead PI); American Malacological Society Meeting, Ithaca, NY (various presentations).

**Stephanie Clark**

75<sup>th</sup> Annual Meeting of the American Malacological Society, Ithaca, NY; Bivotal Workshop, Smithsonian Field Station, Fort Pierce, FL.

**Steven M. Goodman**

Invited lecturer: l’anniversaire Charles Darwin, Université de La Réunion, France; CRVOI, La Réunion, France; The University of Kwa-Zulu Natal, South Africa; Tropical Vertebrates in a Changing World, Museum Koenig, Bonn, Germany.

**Shannon J. Hackett**

Keynote speaker, CAURS (Chicago Area Undergraduate Research Symposium), Northwestern University, Chicago; Keynote speaker, Science Day, Roosevelt University, Chicago.

**Lawrence R. Heaney**

Invited lecturer: University of the Philippines Alumni Association in America, Washington, D.C.; U.S. Embassy, Manila, Philippines; University of the Philippines—Los Banos; Philippine National Museum, Manila; Wildlife Conservation Society of the Philippines, University of the Philippines at Baguio; American Society of Mammalogists, Fairbanks, AK; International Biogeography Society, Merida, Mexico.

**Nicholas J. Lang**

Presenter, American Society of Ichthyologists and Herpetologists, Portland, OR.

**Corrie S. Moreau**

68<sup>th</sup> Annual meeting of the Entomological Society of America, Indianapolis, IN; Workshop participant, EOL Biodiversity Synthesis meeting of the Global Ant Project, Field Museum, Invited lecturer, Arizona State University, Tempe; Invited lecturer, University of Illinois at Urbana-Champaign; Invited lecturer, University of Wisconsin-Milwaukee.

**Alfred F. Newton**

24<sup>th</sup> International Meeting on Biology and Systematics of Staphylinidae, Müncheberg, Germany; Global Ant Project—EOL Biosynthesis Meeting, Chicago; Entomological Collections Network, Indianapolis, IN; Coleopterists Society, Indianapolis, IN; 57<sup>th</sup> Annual meeting of the Entomological Society of America, Indianapolis, IN.

**Bruce D. Patterson**

American Society of Mammalogists, Fairbanks, AK; 4<sup>th</sup> Congreso de Mastozoología en Bolivia, Cochabamba, Bolivia; 10<sup>th</sup> International Mammal Congress, Mendoza, Argentina.

**Mary Anne Rogers**

American Society of Mammalogists, Fairbanks, AK; American Society of Ichthyologists and Herpetologists, Portland, OR.

**Petra Sierwald**

Presenter, 33<sup>rd</sup> Annual A.A.S. Meeting, Russellville, AR; Presenter, American Malacological Society 75<sup>th</sup> Annual Meeting, Ithaca, NY; Organizer and host, BioSynC, Munich, Germany; Organizer and host, Undergraduate Research Symposium, Field Museum; Organizer and host, NSF workshop series: “Future of Systematics,” Co-host and Co-organizer: Chicago Botanical Garden, IL and Long Beach, CA.

**W. Leo Smith**

American Society of Ichthyologists and Herpetologists, Portland, OR; Graduate Student Organization 2009 Colloquium, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS.

**William T. Stanley**

American Society of Mammalogists, Fairbanks, AK.

**Sid E. Staubach**

BivAToL (Bivalve Tree of Life) Gills and Guts workshop, Ft. Pierce, FL.

**Margaret K. Thayer**

Annual meetings, Entomological Society of America and Entomological Collections Network, Indianapolis, IN; IL State Conference of American Association of University Professors; 24<sup>th</sup> International Meeting on Biology and Systematics of Staphylinidae, Müncheberg, Germany.

**Janet R. Voight**

Invited participant, "Classification and Identification of Marine Organisms from Images and Videos," Monterey Bay Aquarium Research Institute, sponsored by CenSeam, Moss Landing, CA; World President's Organization Symposium on Climate Change, Field Museum, Chicago.

**Jason D. Weckstein**

Invited lecturer, Brazilian Ornithological Congress, Vitoria, Espirito Santo, Brazil.

**Thomas Wesener**

Chairman, Undergraduate Research Symposium, Field Museum; Invited lecturer: Zoologisches Museum und Biozentrum, University of Hamburg, Germany; Alexander Koenig Gesellschaft, Friedrich-Wilhelm University of Bonn, Germany; Forschungsmuseum Koenig, Bonn, Germany; California Academy of Sciences, Madagascar working group, San Francisco, CA.

**Mark W. Westneat**

Society of Integrative and Comparative Biology, Boston; American Society of Ichthyologists and Herpetologists, Portland, OR; Diversitas Conference on Biodiversity, Capetown, South Africa; host, Phylogenetic Tree Visualization Synthesis Meeting, Chicago, IL; Coalition for Barcode of Life Meeting, Chicago, IL; American Association for the Advancement of Science Meeting, Chicago, IL; DeepFin Fish Phylogent Meeting, Kansas City, MO; Encyclopedia of Life meeting, Washington, D.C.; Host, Synthesis Meeting on Biogeography, Chicago, IL; eBiosphere Conference on Biodiversity, London, UK; Synthesis Meeting on Biogeography of Melanesia, Suva Fiji.

**Philip Willink**

H2O So Important: Fairchild Challenge Symposium, Field Museum; Invited lecturer: Southern Illinois University—Edwardsville, University Club of Chicago, Field Museum volunteers, USG Corporation, American Corporate Counsel (Chicago Chapter board meeting), Field Museum Founders' Council Loop Luncheon.

**BIODIVERSITY SYNTHESIS CENTER****Audrey Aronowsky**

Society for Integrative and Comparative Biology, Boston, MA; BarCode of Life Database Working Group, Chicago; AAAS Annual Meeting, Chicago; MacArthur Foundation Digital Grantee Meeting, Irvine, CA; WebWise 2009, Washington, DC; International Marine Conservation Congress, Fairfax, VA; EOL Peracarids Synthesis Meeting, Catalina, CA; Games, Learning, and Society Annual Meeting, Madison, WI; Society for the Study of Evolution, Moscow, ID; e-Biosphere meeting, London, UK; Society for Conservation Biology, Beijing, China; Botany and Mycology Congress, Snowbird, UT; Marine Tetrapods Synthesis Meeting, Chicago; I Dig Zambia!, Chicago; EOL Education Advisory Board Meeting, Cambridge, MA; National Synthesis Centers annual meeting, Raleigh, NC; Species Accounts Synthesis

Meeting, Chicago; Ants Synthesis Meeting, Chicago; National Writing Program meeting, Philadelphia, PA; Drupal Camp, Evanston, IL.

**Alta Buden**

Society for Integrative and Comparative Biology, Boston, MA; AAAS Annual Meeting, Chicago; I Dig Zambia!, Mfuwe, Zambia.

**Karen Cranston**

e-Biosphere meeting, London, UK; Society for the Study of Evolution, Moscow, ID; Botany and Mycology Congress, Snowbird, UT; TDWG annual meeting, Marseilles, France; NESCent Phylogenetics VoCamp, Marseilles, France; Darwin Conference, Chicago.

**Torsten Dikow**

AAAS Annual Meeting, Chicago; Heteroptera Synthesis Meeting, Riverside, CA; Zoologische Staatssammlung, Munich, Germany; Millipedes Synthesis Meeting, Munich, Germany; North American Dipterist Meeting, Crescent City, CA; Entomological Society of America, Indianapolis, IN; Darwin Conference, Chicago.

**Joshua Drew**

AAAS Annual Meeting, Chicago; Samoan National Fisheries and Environmental Ministries, Apia, Samoa; Yale University Biology Department, New Haven, CT; University of Chicago Conservation and Genetics workshop, Chicago; American Society of Ichthyology and Herpetology annual meeting, Portland, OR; Tree of Life Visualization II Synthesis Meeting, Chicago, IL; Species Distributions Synthesis Meeting, Chicago; Melanesian Biogeography Synthesis Meeting, Suva, Fiji; Darwin Conference, Chicago.

**Kannan Mahadevan**

Tree of Life Visualization II Synthesis Meeting, Chicago; Species Distributions Synthesis Meeting, Chicago; Crayfish Synthesis Meeting, Chicago; I Dig Zambia!, Chicago; Marine Tetrapods Synthesis Meeting, Chicago; Climate Change Synthesis Meeting, Chicago; Species Accounts Synthesis Meeting, Chicago.

**James Parham**

International Biogeography Society Meeting, Merida, Mexico; AAAS Annual Meeting, Chicago; Chicago Herpetological Society, Chicago; Tree of Life Visualization II Synthesis Meeting, Chicago; Species Distributions Synthesis Meeting, Chicago; Climate Change Synthesis Meeting, Ithaca, NY; 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology, Bristol, UK; Time Axis Synthesis Meeting, Bristol, England; European Congress of Herpetology, Kusadasi, Turkey; Darwin Conference, Chicago.

**Richard H. Ree**

International Biogeography Society Meeting, Merida, Mexico; NCEAS working group on land plant phylogeny, Santa Barbara, CA.

**Beth Sanzenbacher**

AAAS Annual Meeting, Chicago; International Marine Conservation Congress, Fairfax, VA; Games For Change annual meeting, New York, NY; Games, Learning, and Society Annual Meeting, Madison, WI; I Dig Zambia!, Chicago; Species Accounts Synthesis Meeting, Chicago; EOL Education Advisory Meeting, Cambridge, MA; Shedd Aquarium Education Department, Chicago.

**Darolyn Striley**

Society for Integrative and Comparative Biology, Boston, MA; BarCode of Life Database Working Group, Chicago; AAAS Annual Meeting, Chicago; Heteroptera Synthesis Meeting, Riverside, CA; Peracarids Synthesis Meeting, Catalina, CA; Tree of Life Visualization II Synthesis Meeting, Chicago; Species Distributions Synthesis Meeting, Chicago; Liverworts Synthesis Meeting, Chicago; Crayfish Synthesis Meeting, Chicago; Coral Synthesis Meeting, Washington, DC; I Dig Zambia!, Chicago; Marine Tetrapods Synthesis Meeting, Chicago; Climate Change Synthesis Meeting, Chicago; Species Accounts Synthesis Meeting, Chicago; Ants Synthesis Meeting, Chicago.

**Kristopher Urie**

AAAS Annual Meeting, Chicago; Tree of Life Visualization II Synthesis Meeting, Chicago; Flourish Open Source conference, Chicago; International Graph Drawing Symposium, Chicago; Drupal Camp, Evanston, IL.

**Mark W. Westneat**

Society for Integrative and Comparative Biology, Boston, MA; BarCode of Life Database Working Group, Chicago; AAAS Annual Meeting, Chicago; Tree of Life Visualization II Synthesis Meeting, Chicago; Species Distributions Synthesis Meeting, Chicago; Liverworts Synthesis Meeting, Chicago; Crayfish Synthesis Meeting, Chicago; I Dig Zambia!, Chicago; American Society of Ichthyology and Herpetology annual meeting, Portland, OR; Melanesian Biogeography Synthesis Meeting, Suva, Fiji; Climate Change Synthesis Meeting, Chicago; Bivalves ATOL meeting, Chicago; Ants Synthesis Meeting, Chicago; Deepfin working group meeting, Kansas City, MO; Diversitas OCS2 meeting, Cape Town, South Africa.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION****Kevin A. Feldheim**

25<sup>th</sup> Annual Meeting of the American Elasmobranch Society, Portland, OR; Invited lecturer: Truman College, Shedd Aquarium, University of Illinois at Chicago, and Southern Illinois University.

**OFFICE OF COLLECTIONS AND RESEARCH****Carter O'Brien**

Invited speaker, Green Festival, Chicago; Invited speaker, Chicago Fair Trade GlobalFest; Illinois Solar Energy Association Annual Members' Meeting, Chicago; Illinois Solar Energy Association Solar 201 and 202 workshops, Chicago; Midwest Renewable Energy Association Solar Domestic Hot Water Systems 101 workshop, Madison, WI.

**MUSEUM AND PUBLIC SERVICE, 2009**  
(Editorships, Committees, etc.)

**DEPARTMENT OF ANTHROPOLOGY**

**J. P. Brown**

Field Museum: Member, Common Ground; Member, SEM Users Group; Lead User for portable FTIR; Member, Anthropology Access Committee; Lead programmer, Image Processing and Barcoding software.

**L. Antonio Curet**

Field Museum: C&R Scholarship Committee; Alternate, Science Advisory Council; Curator, *Real Pirates*; Anthropology Special Seminar Coordinator; Internship Coordinator, Department of Anthropology; Tours coordinator, Department of Anthropology; CCUC Community Advisory Panel member; North American Curatorial Team; Latin American Curatorial Team.

External: Series Editor, Caribbean Archaeology and Ethnohistory Book Series, University of Alabama Press; Editorial Board, *Journal of Caribbean Archaeology*; Editorial Board, *Arqueología del Area Intermedia*; Editorial Board, *Ethnohistory*; Editorial Board, *Journal of Island and Coastal Archaeology*; Member, Committee on the Americas, Society for American Archaeology; National Meeting Committee, Society for American Archaeology; Board, Puerto Rican Arts Alliance; Pro bono archaeological consultant, City of Ponce.

**Gary M. Feinman**

Field Museum: Member, C&R Strategic Planning Committee-Research; Member, Scientific Advisory Council; Member (alternate), Special Exhibits and Education Committee; Member, Management Committee for *Expeditions@fieldmuseum.org*; Associate Editor, *Fieldiana Anthropology*; Member, CCC Intern Selection Committee; Member, Boone Intern Selection Committee; Member, Anthropology Acquisitions Committee; Member, Anthropology Promotions Committee; Member, Anthropology Space Committee; Member, Anthropology Fund Raising Committee.

External: Editor, *Journal of Archaeological Research*; Associate Editor, *Journal of World-Systems Research*; Series Editor, *Fundamental Issues in Archaeology*, Springer; Advisory Editor, *Foundations of Anthropology*, Eliot Werner Publications, Inc.; Advisory Editor, *Cross-Cultural Research*; Publications Committee, *Latin American Antiquity*; Editorial Board, *The Open Anthropology Journal*; Editorial Board, *Human Ecology*; External Director, Committee to oversee the Archaeology Research Center at Shandong University, Jinan, China; Executive Board, Chicago Society of the Archaeological Institute of America; Program review: Member, Planning Committee, Mesas Redondas de Monte Albán, Mexico; Member, Graduate Admissions Committee, Anthropology, University of Illinois-Chicago; Member, East Asian Archaeology Search Committee, Anthropology, University of Illinois-Chicago; Outside hiring/tenure review: Illinois State University, University of California-Los Angeles, University of California-Santa Barbara, University of Georgia, University of Hawaii-Manoa; Ms./Book referee: *American Anthropologist*, *American Antiquity* (2), *American Anthropologist*, *Cross-Cultural Research*, *Human Ecology* (2), *Journal of Anthropological Archaeology* (2), *Journal of Anthropological Research*, *Journal of Field Archaeology*, David Brown Book Company; Grant/Fellowship referee: Luce Foundation, National Science Foundation (6).

**Robert D. Martin**

Field Museum: Member, Museum Repatriation Committee; Invited participant, Repatriation Subcommittee of the Committee on Science; Chair, Intradepartmental Relations Committee of the Anthropology Department; Representative, Library Committee; Representative, A. Watson Armour Seminar Committee; Coordinator, Members' Nights displays for Anthropology Department; Participant: Anthropology Alliance, Council on Africa, Friends of Geology; Co-leader, tour of cave sites in southern Europe; Presenter, for trainees in the Iraqi Heritage Project.

External: Scientific Advisory Committee member, Duke University Primate Center.



**Linda M. Nicholas**

External: Editorial Assistant: *Journal of Archaeological Research*, *Fundamental Issues in Archaeology* (Springer series); Ms referee: *American Antiquity*.

**Ruth E. Norton**

Field Museum: Member, Pests Subcommittee; Member, Facilities Planning Advisory Group.

External: Field Editor, *Art and Archaeology Technical Abstracts Online* (Getty); Panel Reviewer, NEH Preservation and Access, Education and Training grants; Advisory Panel, University of Chicago Graham School course in Collection Care; Advisor, Columbia College Department of Science and Mathematics course in Heritage Conservation; Moderator, Chicago Council on Science and Technology meeting.

**John Edward Terrell**

Field Museum: Member, Anthropology Department Digital Standards Committee; Member, Anthropology Department Acquisitions Committee; Member, C&R Scholarship Committee; Member, SPEC Committee; Member, C&R Collections Strategic Planning Committee; Mexico Pacific Exhibition Loan Committee

**Anne P. Underhill**

Field Museum: Chair, Department of Anthropology; Member, Museum Repatriation Committee, Repatriation Subcommittee, Committee on Science; Participant, Members' Nights; Participant, Anthropology Alliance Steering Committee.

External: Co-Editor, *Asian Perspectives* journal; Grant Reviewer, National Science Foundation; Chicago Sister Cities China Committee.

**Alaka Wali**

Field Museum: Member, Repatriation Subcommittee of the Committee on Science; Member, ECCo Committee of the Board of Trustees; Member, Dept. of Anthropology North American Collections Team and Latin America Collections Team; Member, ECCo Leadership Team; Director, Cultural Understanding and Change; Benchmarking for Conservation Hall Exhibit, Tucson, AZ.

External: Editorial Board, *American Anthropologist*, flagship journal of the American Anthropological Association; Co-Editor, Public Anthropology Reviews Section of the *American Anthropologist*; Editorial Board, *Collaborative Anthropologies*; Reviewer for *Human Organization*, Journal of the Society for Applied Anthropology; Technical Review Advisory Committee, Cordillera Azul National Park Management Plan Review; Board of Trustees, High Jump Enrichment Program; Board of Trustees, National Public Housing Museum; Advisory Committee on Arts and Culture, Chicago Metropolitan Agency for Planning *GoTo2040 Project*; Advisory Committee, "Chicago Matters: Beyond Burnham" Program of the Chicago Community Trust.

**Patrick Ryan Williams**

Field Museum: Co-chair, Department of Anthropology; Science Advisory Council; Science Public Education Exhibits Committee (SPEC); Member, C&R-IT Committee; Scanning Electron Microscope Committee; Director, Elemental Analysis Facility Committee.

External: President, Field Museum Chapter, American Association of University Professors; State Council of the Illinois Conference of the American Association of University Professors; International Scientific Advisory Board, III International Conference On Remote Sensing In Archaeology, Tiruchirappalli, India.

**DEPARTMENT OF BOTANY****Mark Alvey**

Field Museum: Botany representative, Science/Public Education Committee.

**William Burger**

Other: Secretary, Nature Camera Club of Chicago.

**Michael O. Dillon**

External: Editorial Board, *Arnaldoa*, Peru; Editorial Board, *Flora of Ecuador*, The Netherlands; Editorial

Committee, *Flora Neotropica*; Editor, *Chloris Chilensis*, Chile; Fellow, Center for Advanced Studies in Ecology and Biodiversity; Pontificia Universidad Católica de Chile; Visiting Professor, Biological Sciences Faculty, Universidad Ricardo Palma, Lima, Peru; Honorary Professor, Universidad Nacional de Cajamarca, Cajamarca, Peru; Visiting Professor, Universidad Antenor Orrego, Trujillo, Peru; Honorary Professor, Universidad Nacional de San Agustín, Arequipa, Peru; Socio Honorario, Colegio de Biólogos del Perú; Manuscript Reviewer, *Journal of Systematics and Evolution*, *Taxon*, *Botanical Journal of the Linnean Society*; Proposal reviewer, National Science Foundation (2).

### **Sabine Huhndorf**

Field Museum: Associate Editor, *Fieldiana*.

External: Treasurer, Mycological Society of America; Editor, *MYCONET*.

### **Maria Lucia Kawasaki**

External: Manuscript reviewer, *Novon*; Grant reviewer, Asociación Peruana para la Conservación de la Naturaleza; Member, Organization for Flora Neotropica Commission.

### **Patrick Leacock**

Field Museum: Project Coordinator for Fungi, vPlants.org, joint Field Museum, Morton Arboretum, and Chicago Botanic Garden project; Member, Chicago Wilderness Science Team.

External: Scientific Advisor, Illinois Mycological Association; Contact person for mushroom cases, Illinois Poison Center; Chair, Voucher Collection Committee, North American Mycological Association.

### **Robert Lücking**

Field Museum: Botany Representative, Common Ground User Group; Botany Representative, SEM Committee; Staff Representative, Research Strategic Planning Committee.

External: Editorial Board, *The Lichenologist*; Reviewer: *Acta Botanica Brasilica*, *American Journal of Botany*, *Biodiversity and Conservation*, *Biotropica*, *Bryologist*, *Ernstia*, *Gayana*, *Glalia*, *Herzogia*, *Lichenologist*, *Lichenology*, *Mycological Progress*, *Mycological Research*, *Mycotaxon*, *Nova Hedwigia*, *Opuscula Philolichenum*, *Taxon*; Grant Reviewer, National Science Foundation.

### **Thorsten Lumbsch**

Field Museum: Chair, Department of Botany; Member, Management Committee, Pritzker Laboratory for Molecular Systematics, The Field Museum.

External: Vice President, International Association for Lichenology (IAL); Council member, Gesellschaft für Mykologie und Lichenologie (GML); Council member Ascomycete Systematics Group (Myconet); Editor: *Mycological Research*, *Myconet*, *Nova Hedwigia*; Associate Editor: Australian Systematic Botany; Editorial Board: *Fieldiana*, *Mycology*, *Phytotaxa*, *Systematic Biology*, *Willdenowia*; Ad hoc reviewer for more than 20 international journals; Panelist/proposal reviewer: National Science Foundation, Czech Research Council, Research Council of Norway, Deutsche Forschungsgemeinschaft.

### **Joanna McCaffrey**

External: Invited member, UIUC Graduate School of Library and Information Science (GSLIS) Data Curation Education Program (DCEP) Advisory Committee.

### **Richard H. Ree**

Field Museum: Member: Science Advisory Committee, Pritzker Lab Management Group, Scholarship Committee, Board IT Committee, C&R/IT Committee; Assistant Director, Biodiversity Synthesis Center.

External: Peer reviewer: *Journal of Biogeography*, *Systematic Biology*, *Molecular Phylogenetics and Evolution*, *Journal of Systematics and Evolution*, *Novon*; Editorial Board Member, *International Journal of Plant Science*.

### **Gayle Tonkovich**

Field Museum: Coordinator and institutional liaison, vPlants.org; Collaborator and Contributor, Keys to Nature Project; Member, Common Ground Project.

External: Secretary, Board of Directors, Flora Richardson Foundation, Inc.; Co-chair, Flora Richardson Foundation Grants Committee.

**Matt von Konrat**

Field Museum: Member, A Watson Armour III Seminar Series Committee, Field Museum; Member, C&R Strategic Planning Subcommittee, Education and Exhibits.

External: Member of Committee for Bryophyta, International Association for Plant Taxonomy; Member of the IUCN SSC Bryophyte Specialist Group; Member of Executive Council for the International Association of Bryologists; Peer-reviewer of manuscripts for five scientific journals; Editor, Bryophytes for the journal *Phytotaxa*; Consultant: Cook County Sheriff Department, Cook County State Attorney's Office.

**DEPARTMENT OF GEOLOGY****Kenneth D. Angielczyk**

Field Museum: Chair: Meteoritics Curator Search Committee; Member: C&R Strategic Planning Committee Working Group C (Education and Training); NSF Informal Science Education Proposal Committee; Parker-Gentry Award Committee; Science and Public Education Committee; A. Watson Armour III Seminar Series Committee; Steering Council, The Field Museum/IDP Foundation, Inc. African Training Fund.

External: Journal Editorial Boards: *Bulletins of American Paleontology*, *Palaeontographica Americana*, *Palaeontology*. Journal Peer Reviewer: *Acta Palaeontologica Polonica*, *Geodiversitas*, *Evolution: Education and Outreach*, *Journal of Vertebrate Paleontology*, *Palaeodiversity*, *Palaeontologia Africana*, *Paleobiology*, *Proceedings B*. Grant Proposal Peer Reviewer: National Geographic Society Committee for Exploration and Research, NOAA/NSF Comparative Analysis of Marine Ecosystem Organization (CAMEO) Program, NSF Integrative Organismal Systems: Processes, Structures and Integrity Program. Society Service: Judge, Best Student Paper, Division of Systematics and Evolutionary Biology, Society for Integrative and Comparative Biology; Alfred Sherwood Romer Prize Committee, Society of Vertebrate Paleontology.

**Marlene Hill Donnelly**

External: Membership Secretary, Guild of Natural Science Illustrators; Program Coordinator, Guild of Natural Science Illustrators 2009 Annual Conference, Fort Kent, MA.

**Ian Glasspool**

Field Museum: C&R Professional Staff Representative; Member: Scholarship Committee, Science Advisory Council, Collections and Research/Information Technology Committee, IT Database Subcommittee, Strategic Planning Committee-Collections Working Group.

External: Manuscript reviewer: *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*; *Botanical Journal of the Linnean Society*; *International Journal of Coal Geology*; *Palaaios*.

**Lance Grande**

External: Board Member and Chair of Program Committee, Chicago Council on Science and Technology.

**Lori Grove**

External: President of the Board of Directors, Maxwell Street Foundation.

**Scott Lidgard**

Field Museum: Member, Information Technology/Collections & Research Committee; Member, Collections & Research Strategic Plan Committee (Technology); Member, Library Committee; Collections and Research *ad hoc* liaison committee to Biology Department, University of Illinois at Chicago.

External: Executive Council Member, International Bryozoological Association. Manuscript reviewer for *Science*, *Marine Ecology Progress Series*. Grant proposal reviewer for National Science Foundation.

**Peter J. Makovicky**

Field Museum: Chair, Department of Geology; Geology representative, C&R Strategic Planning Committee.

External: Associate Editor, *Journal of Paleontology*; Session moderator, 69<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology; Grant proposal reviewer for National Science Foundation; Manuscript reviewer for the following journals: *Ameghiniana*, *Journal of Paleontology*, *Journal of Vertebrate Paleontology*, *Nature* (2), *Naturwissenschaften*, *Proceedings of the Royal Society*, *Science*.

**Olivier Rieppel**

Field Museum: Member, Science Advisory Council; Associate Editor, *Fieldiana Geology*.

External: Associate Editor: *Zoological Journal of the Linnean Society*, *Zoologischer Anzeiger*, *Palaeontologische Zeitschrift*, *Vertebrate Zoology*, *Dresden*; Editorial Board: *Development and Evolution*, *Belgian Journal of Zoology*.

**Akiko Shinya**

External: Member, Society of Vertebrate Paleontology Preparator's Committee; Member, Society of Vertebrate Paleontology Information Management Committee; Web editor, Society of Vertebrate Paleontology; Manuscript reviewer, *Proceedings of First Annual Fossil Preparation and Collections Symposium*.

**Paul Sipiera**

External: Executive Board Member, Jo Daviess Conservation Foundation.

**Nathan D. Smith**

Field Museum: Organizer, Evolution Discussion Group; Organizer, Vertebrate Morphology Discussion Group.

External: Member, Scientific Advisory Board, The Center for Polar Studies, Augustana College, Rock Island, IL; Member, University of Chicago, Biological Sciences Division Dean's Council; Member, American Ornithologists' Union; Member, Palaeontological Association; Member, Willi Hennig Society; Member, Society of Vertebrate Paleontology; Member, Society of Systematic Biologists; Member, Paleontological Society; Manuscript Reviews: *Naturwissenschaften* (2); *Geological Magazine* (1); *Journal of Systematic Palaeontology* (1); *Acta Palaeontologica Polonica* (1); *Zootaxa* (1); *Proceedings of the Zoological Institute of the Russian Academy of Sciences* (1).

**Lindsay E. Zanno**

External: Manuscript referee, *Journal of Vertebrate Paleontology*.

**DEPARTMENT OF ZOOLOGY**

**John M. Bates**

Field Museum: Chairman, Department of Zoology; Acting Head, Division of Amphibians and Reptiles; Member, Pritzker Lab Management Committee; Member, TFM Africa Council; Member, African Training Program scientific committee; Head, Collections and Research Environmental Biology strategic planning subcommittee; Participant, TFM Committee on Science; TFM new Trustee Orientations; Chairman, M.O.U. Committee; Member, Parker Gentry Award Nominating Committee; Friends of Zoology/Founders' Council loop luncheon; Co-PI, Informal Science Education grant planning meetings.

External: Member, Cooper Ornithological Society Student Awards Committee; Zoology Department Liaison with Chicago office of U.S.F.W Service; Member, Editorial Board, *Bulletin of the Museu Goeldi*; Member, Editorial Board, *Ornitología Neotropical*; Member, American Ornithologists' Union Collections Committee; Member, Steering Committee, VertNet program.

**Rüdiger Bieler**

Field Museum: Head, Division of Invertebrates; Chair, Library Committee; Member, SEM Committee (defunct).

External: President, Institute of Malacology; Associate Editor/Editorial Board: *Zoological Journal of the Linnean Society*, *Zootaxa*, *Malacologia—International Journal of Malacology*, *Archiv für Molluskenkunde*, *The Nautilus*, *The Festivus*, *Iberus*, *The Yuriyagai*, *Acta Zootaxonomica Sinica*, *Malakologische*

*Abhandlungen, Papéis Avulsos de Zoologia, Arquivos de Zoologia*; Member, Committee on Evolutionary Biology, University of Chicago; Member, Faculty Appointments Committee, CEB, University of Chicago.

**James H. Boone**

External: Reviewer, book proposals, University of Chicago Press.

**Stephanie Clark**

External: Manuscript reviewer, *Zoological Journal of the Linnean Society*.

**Jochen Gerber**

Field Museum: Member, Library Committee.

External: President, Chicago Shell Club; Member, Terrestrial Mollusk Team, New Pest Advisory Group, APHIS (USDA); Editor for terrestrial gastropods, *Zootaxa*.

**Steven M. Goodman**

External: Editorial Board: *Faune de Madagascar, Mammalia, African Bat Conservation Newsletter, Malagasy Nature, Univers Maoré*; Manuscript reviewer: *Journal of Biogeography, Journal of Mammalogy, Journal of Zoology, Proceedings of the Biological Society of Washington, Mammalia, Zootaxa, Zoosystema, Journal of Arid Environments, Conservation Letters, American Journal of Primatology, Acta Chiropterologica, Proceedings of the Royal Society*.

**Shannon J. Hackett**

Field Museum: Chair, Science Advisory Council; Member, Pritzker Lab Management Committee; Co-chair, IT/C&R Committee; Manager, High Performance Computing Cluster; Collections and Research point person, Cryogenics Facility; Radiation Safety Officer.

External: Editorial Board, Molecular Phylogenetics and Evolution; Co-Chair, University of Chicago Committee on Evolutionary Biology; Steering Committee, University of Chicago's GAANN program; Fellow, University of Chicago's Institute for Genomics and Systems Biology;

**Lawrence R. Heaney**

Field Museum: Head, Division of Mammals; Co-Chair, Pest Subcommittee, Facilities Advisory Committee; At-Large Representative, Science Advisory Council; Chair, Tenure Appeals Committee; Environment and Conservation Subcommittee, C&R Strategic Planning.

External: President-Elect, International Biogeography Society; Board of Trustees and Editorial Board, Wildlife Conservation Society of the Philippines; Consultant on Philippine conservation issues for Conservation International and the Philippine Department of Environment and Natural Resources; Associate Editor, *Journal of Biogeography*; Editorial Board, *Silliman Journal* (Philippines).

**Janeen Jones**

Field Museum: Chair, Common Ground Committee; Zoology Representative, Collections Data sub-committee of the Collection and Research/Information Technology Committee; Representative, Strategic Planning Technology Working Group.

**Julian C. Kerbis Peterhans**

External: Member, Executive Committee, College of Professional Studies, Roosevelt University; Representative to College Council of Arts & Sciences, College of Professional Studies, Roosevelt University; Reviewer: *J of Mammalogy, J of East African Natural History, J of Human Evolution*.

**Nicholas J. Lang**

External: Session Moderator, Joint Meeting of Ichthyologists and Herpetologists; Manuscript reviewer: *Copeia* (1), *Zootaxa* (1).

**Corrie S. Moreau**

Field Museum: Member, Pritzker Laboratory Management Committee.

External: Academic journal editor, *PLoS ONE*; Manuscript reviewer, *Zootaxa, Genetics Research, Evolution, Biological Journal of the Linnean Society, Australian Journal of Zoology, Molecular*



*Phylogenetics and Evolution*; Member, Ant Course student selection committee; Invited participant, Society of Systematic Biology (SSB) Membership Committee.

**Alfred F. Newton**

Field Museum: Curatorial consultant, Division of Insects.

External: Editorial Board, *Belgian Journal of Entomology*; Editorial Board, *Entomological Research*.

**Bruce D. Patterson**

Field Museum: Member, Institutional Animal Care and Use Committee; Member, Scholarship Committee; Member, Curatorial Steering Committee, Council on Africa; African Training Program; Member, Parker-Gentry Award Selection Committee; Member, C&R Strategic Planning Working Group F; Member, Graduate Admissions Committee, Committee on Evolutionary Biology, University of Chicago; Vice President, Field Museum Chapter, American Association of University Professors; Liaison, Graduate Program with University of Illinois at Chicago.

External: Associate Editor, *Mastozoología Neotropical*; Associate Editor, *Diversity and Distributions*; Past President, American Society of Mammalogists; Honorary Membership Committee, American Society of Mammalogists; Planning & Finance Committee, American Society of Mammalogists; Chair, Systematic Collections Committee, International Federation of Mammalogists; Member, Small Non-Volant Mammal Task Force, IUCN.

**Alan Resetar**

External: Member, Indiana Department of Natural Resources Nongame Program, Amphibian and Reptile Technical Advisory Committee; Member, Partners in Amphibian and Reptile Conservation; Advisory Board member, TalTree Arboretum Research and Restoration Committee.

Internal: Collections and Research Strategic Planning Environmental Biology Subcommittee; Presentation at Board of Trustees meeting on National Geographic Society and National Park Service Indiana Dunes BioBlitz.

**Mary Anne Rogers**

Field Museum: Member, Field Museum Facility Advisory Group Recycling Subcommittee (A Greener Field).

External: Member, Collections and Resources Committee, American Society of Ichthyologists and Herpetologists.

**Petra Sierwald**

Field Museum: Chair, Scholarship Committee; C&R Strategic Planning Committee, Working Group C.

External: Advisory Board member, Grzimek's Encyclopedia of Animal Life on the Web; Editorial board member: *The Journal of Arachnology*, *International Journal of Myriapodology*; NSF Panel Service, Biological Research Collections; Member, Education committee, American Arachnological Society.

**W. Leo Smith**

Field Museum: Member, Pritzker Laboratory Management Committee.

External: Associate Editor of Genetics, Development, and Morphology, *Copeia*; Book Review Editor, *Copeia*; Illustration Editor, *Copeia*; Member, Committee on Evolutionary Biology Admissions Committee, University of Chicago; Member of Steering Committee, Department of Education Graduate Assistance in Areas of National Need Award, University of Chicago; Panelist, National Science Foundation Assembling the Tree of Life Grant Panel.

**William T. Stanley**

Field Museum: Member, Field Museum Facility Advisory Group Recycling Subcommittee (A Greener Field).

External: Chair, Systematic Collections Committee, American Society of Mammalogists.

**Sid E. Staubach**

Field Museum: Creepy Creatures Night.

**Kevin Swagel**

Field Museum: Member, Personnel Committee.

**Margaret K. Thayer**

Field Museum: Head, Division of Insects; At-Large and Zoology Alternate Member, Scientific Advisory Council (SAC); Zoology representative, A. Watson Armour III Seminar Committee; Coordinator, Insects EMu collection database; FMNH permit coordinator for NGS-NPS Indiana Dunes BioBlitz; Secretary, FMNH Chapter of American Association of University Professors; Museum pest IDs for Smithereen; Member, FMNH EMu Users Group; Beta-tester for FMNH IT of VPN and online help-desk service.

External: Chair, Thomas Say Publications Editorial Board; Editorial Board, *Annales Zoologici*; Comité Editorial, *Dugesiana*.

**Janet R. Voight**

Field Museum: Associate Editor, *Fieldiana*; Invited Outside Member, Meteoritics Search Committee, Department of Geology; Member, Co-Chair, Science, Public Education Committee; Member, Evaluation Liaison Group; Member, Institutional Animal Care and Use Committee.

External: Associate Editor, *Journal of Molluscan Studies*; Editorial Board, *Malacologia*; Editorial Board, *American Malacological Bulletin*; Chair, American Malacological Society Student Research Awards Committee; Member, Committee on Evolutionary Biology, University of Chicago; Panel Member: Rubenstein Fellowship Selection Committee, Encyclopedia of Life; Ad hoc reviewer, National Science Foundation; ad hoc reviewer *Marine Biodiversity Records*, *Marine Biology*, *Journal of the Marine Biological Association*, *Malacologia*.

**Harold K. Voris**

Field Museum: Managing Scientific Editor, *Fieldiana*, New Series.

External: Member of the Board of Trustees, The Nature Conservancy, Illinois Chapter; Member of Board of Advisors for Center for Free Inquiry, Hanover College; Editorial Board Member, *The Natural History Journal of Chulalongkorn University*; Guest Editor, *Science Asia*, Journal of the Science Society of Thailand.

**Mark W. Westneat**

Field Museum: Director, Biodiversity Synthesis Center; Chair, Institutional Animal Care and Use Committee; Field Museum-University of Chicago Teaching Liaison.

External: Steering Committee, Tree of Life Web Project; Hinds Fund Committee, University of Chicago; Chair, Division of Vertebrate Morphology, Society of Integrative and Comparative Biology; BitMaP Advisory Board, Chicago Technology Park; NESCent Review panel for NSF.

**David Willard**

External: Editorial Board, *The Meadowlark*; Member, Illinois Ornithological Records Committee.

**Philip Willink**

Field Museum: Member, Parker-Gentry Conservation Award Review Committee.

External: Member, All Catfish Species Inventory; Member, Great Lakes Rapid Response Plan; Member, Chicago Wilderness Aquatic Initiative; Member, City of Chicago Aquatic Invasive Species Advisory Group; Member, Chicago Wilderness Climate Change Task Force; Manuscript reviewer: *Environmental Biology of Fishes* (2), *Zootaxa* (1), *Marine Biodiversity* (1), *Historical Biogeography of Neotropical Freshwater Fishes* (book chapter), *Notulae Naturae of the Academy of Natural Sciences of Philadelphia* (1).

**BIODIVERSITY SYNTHESIS CENTER****Audrey Aronowsky**

Field Museum: Member, Informal Science Education committee; Member, Digital Learning committee.

External: Judge, Society of Integrative and Comparative Biology.

**Torsten Dikow**

External: Editorial Advisory Board, *African Invertebrates*; Editorial Board, *Insect Systematics & Evolution*.

**Chris Jones**

External: Volunteer, Peggy Notebaert Nature Museum.

**Beth Sanzenbacher**

Field Museum: Guest Member, *Sue 2010* planning committee; Guest Facilitator, Museology.

**Mark W. Westneat**

Field Museum: Director, Biodiversity Synthesis Center; Member and Chair, Institutional Animal Care and Use Committee; Field Museum-University of Chicago Teaching Liaison; NSF site reviewer for National Evolutionary Synthesis Center.

External: Steering Committee, Tree of Life Web Project; Hinds Fund Committee, University of Chicago; Chair-Elect, Division of Vertebrate Morphology, Society of Integrative and Comparative Biology.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

**Kevin A. Feldheim**

External: Grant Reviewer, NOAA/NMFS; Member, American Elasmobranch Society, American Society of Ichthyologists and Herpetologists; Member, Nomination Committee for the American Elasmobranch Society; Manuscript referee: *Neotropical Ichthyology*, *Behavioral Ecology*, *Molecular Ecology Resources*, *Emu*.

**OFFICE OF COLLECTIONS AND RESEARCH**

**Carter O'Brien**

Field Museum: Chair, Facility Advisory Group Recycling Subcommittee (A Greener Field); Collections and Research Coordinator, Women's' Board Field Dreams program; Member, Shared Bikes Committee.

External: Member, Green Museums Steering Committee, Department of the Environment, City of Chicago; Volunteer, Treekeeper, Openlands/City of Chicago.

## **FIELDWORK AND RESEARCH TRAVEL, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

#### **J. P. Brown**

Fieldwork: Erbil, Iraq.

#### **L. Antonio Curet**

Fieldwork: Ponce, Puerto Rico.

Research: Ponce, Puerto Rico.

#### **Laure Dussubieux**

Fieldwork: Khao Sam Kaeo, Thailand.

Research: Orléans, France.

#### **Gary M. Feinman**

Fieldwork: Mitla Fortress, Oaxaca, Mexico.

#### **Jonathan Haas**

Fieldwork: Fortaleza Valley, Peru.

Research: DeKalb, IL.

#### **Chapurukha M. Kusimba**

Research: Seoul, South Korea; Mombasa and Nairobi, Kenya.

Fieldwork: Kenya.

#### **Robert D. Martin**

Research: Bern and Zürich, Switzerland.

#### **Linda M. Nicholas**

Fieldwork: Mitla Fortress, Oaxaca, Mexico

#### **Jill Seagard**

Fieldwork: El Pamillo, Oaxaca, Mexico.

#### **Christine Taylor**

Fieldwork: Silchester, England.

#### **John Edward Terrell**

Research: Melbourne, Sydney, and Canberra, Australia.

#### **Anne P. Underhill**

Research: Rizhao, Shandong, China.

#### **Alaka Wali**

Fieldwork: Cordillera Azul National Park, Peru; Bolivia; Kampankis Range, Peru; Lake Park Crescent, Chicago.

#### **Patrick Ryan Williams**

Fieldwork: Carumas, Moquegua, and Puno, Peru; Tiwanaku, Bolivia.

Research: Puno, Peru.

## DEPARTMENT OF BOTANY

### **Michael O. Dillon**

Fieldwork: Chile.

### **Wyatt Gaswick**

Fieldwork: Chicago region, IL and IN.

Research: Indiana Dunes, Porter, IN; Lafayette, LA.

### **Sabine Huhndorf**

Fieldwork: Indiana Dunes.

### **Patrick Leacock**

Fieldwork: Chicago region, IL and IN.

Research: Porter, IN; Lafayette, LA.

### **Robert Lücking**

Fieldwork: Fakahatchee, Florida; Parque Nacional Campana, Panama; Parque Nacional Mombacho, Nicaragua; El Salvador; Cerraro Botucatu, Brazil; Parque Nacional Itatiaia, Brazil; Cochabamba, Bolivia; Piscacucho, Peru; Machu Picchu, Peru.

Research: Corrientes, Argentina; Sao Paulo, Brazil.

### **Thorsten Lumbsch**

Fieldwork: Tasmania; Thailand; Vietnam.

Research: Spain.

### **Richard H. Ree**

Fieldwork: China (Tibet).

Research: Cambridge, MA.

### **Gayle Tonkovich**

Fieldwork: Indiana Dunes National Lakeshore, IN.

### **Matt von Konrat**

Fieldwork: Vietnam; South Africa.

## DEPARTMENT OF GEOLOGY

### **Kenneth D. Angielczyk**

Fieldwork: Permian and Triassic of Luangwa Basin, Zambia.

Research: London, UK; Cambridge, UK.

### **Marlene Hill Donnelly**

Research: Kilauea, Hawaii Volcanoes; North Cascades, WA.

### **Jörg Fröbisch**

Research: Berkeley, CA.

### **Ian Glasspool**

Fieldwork: Lehigh Quarry, IL; Central Quarry, IL.

### **Lance Grande**

Fieldwork: Lewis Ranch, WY.



**Lisa Herzog**

Fieldwork: Kemmerer, WY; Mid-Cretaceous, San Rafael Swell, UT.

**James Holstein**

Fieldwork: Kemmerer, WY; Mid-Cretaceous, San Rafael Swell, UT.

**Scott Lidgard**

Research: Cambridge, MA; Madison, WI.

**Peter J. Makovicky**

Fieldwork: Mid-Cretaceous, San Rafael Swell, UT.

Research: New York, NY.

**Paul S. Mayer**

Fieldwork: Ohio; Michigan.

**Olivier Rieppel**

Research: Beijing, China; Chengdu, China; Zürich, Switzerland.

**Akiko Shinya**

Fieldwork: Abiquiu, NM; Kemmerer, WY; San Rafael Swell, UT.

**William F. Simpson**

Fieldwork: Mid-Cretaceous, San Rafael Swell, UT.

**Nathan D. Smith**

Fieldwork: Shalimar Ranch, NE; Ghost Ranch, NM.

Research: New York, NY; Washington, DC; Bristol, UK; Ghost Ranch, NM.

**Constance Van Beek**

Fieldwork: Mid-Cretaceous, San Rafael Swell, UT.

**Deborah Wagner**

Fieldwork: Mid-Cretaceous, San Rafael Swell, UT.

**Lindsay E. Zanno**

Fieldwork: Mid-Cretaceous, San Raphael Swell, UT; Grand Staircase-Escalante National Monument, UT.

Research: Buenos Aires, Argentina; Plaza Huincul, Argentina; Neuquen Province, Argentina; Bozeman, MT; Salt Lake City, UT.

**DEPARTMENT OF ZOOLOGY****John M. Bates**

Fieldwork: Vwaza Swamp National Park, Malawi; Ntchisi Forest, Malawi.

Research: Blantyre, Malawi; Costa Rica.

**Rüdiger Bieler**

Fieldwork: Florida Keys; Ft. Pierce, FL.

Research: Summerland Key, FL; Munich, Germany; Paris, France; Cambridge, MA; North Myrtle Beach, SC.

**Stephanie Clark**

Fieldwork: Northern IL; Puerto Rico; Southern FL.

**Jochen Gerber**

Fieldwork: Midwestern U.S.; Indiana Dunes, Porter, IN.

**Thomas Gnoske**

Fieldwork: Malawi.

Research: St. Paul, MN.

**Steven M. Goodman**

Fieldwork: Madagascar: Ankarana, Andringitra, Anjozorobe, Sahafina, Sarodrano, Tsimanampetsotsa, Itampolo, Beanka, Montagne d'Ambre, Fandriana, Tolagnaro; Trois Basins, La Réunion; Aldabra and Mahé, Seychelles.

Research: Paris, France; London, UK; Berlin and Frankfurt, Germany; Durban, South Africa.

**Lawrence R. Heaney**

Research: Manila and Baguio City, Philippines; Washington DC.

**Julian C Kerbis Peterhans**

Fieldwork: Nyungwe National Park, Rwanda; Tshualpa-Lualaba-Lomani Rivers proposed park (TL2), Democratic Republic of Congo.

Research: New York, NY.

**Corrie S. Moreau**

Fieldwork: Australian Wet Tropics World Heritage Area, Queensland, Australia; Chiricahua Mountains, AZ; Florida Keys, FL.

Research: Brisbane, Australia; Champaign, IL; Berkeley, CA; Tempe, AZ.

**Alfred F. Newton**

Fieldwork: Germany.

Research: Müncheberg, Germany; Cambridge, MA.

**Bruce D. Patterson**

Fieldwork: Taita and Rukinga Ranches, Tsavo, Kenya; Isla Vieques; Puerto Rico.

Research: London, UK.

**Alan Resetar**

Fieldwork: Northwest IN.

**Petra Sierwald**

Fieldwork: Florida.

Research: Hamburg, Munich, Germany; Paris, France; Washington, D.C.

**W. Leo Smith**

Fieldwork: Taiwan.

Research: Kansas.

**William T. Stanley**

Fieldwork: Mt. Meru, Tanzania.

Research: Southern Highlands, Mbeya, Tanzania.

**Sid E. Staubach**

Fieldwork: Ft. Pierce, Indian River Lagoon, FL.

Research: Florida.

**Kevin Swagel**

Fieldwork: Wisconsin.

**Margaret K. Thayer**

Fieldwork: Indiana Dunes National Lakeshore, IN.

Research: Cambridge, MA.

**Jason D. Weckstein**

Fieldwork: Vwaza Marsh Wildlife Reserve and Nyika National Park, Rumphi District, Malawi.

Research: Champaign, IL.

**Thomas Wesener**

Fieldwork: Bavaria, Germany; Italy: Lago di Garda, Parco Montefalcone Liguria; San Marino; Mount Ventoux, France; Schengen, Luxembourg; Siebengebirge and Weesenstein, Germany.

Research: Germany: Bonn, Dresden, Hamburg; Copenhagen, Denmark; San Francisco, CA; Paris, France.

**Mark W. Westneat**

Fieldwork: Suva, Fiji; Kauai, Hawaii; Lake Michigan.

Research: Argonne National Laboratory, Chicago.

**David Willard**

Research: Green Bay, WI; Minneapolis and St. Paul, MN.

**Philip Willink**

Fieldwork: Papua New Guinea; Chicago Region, Illinois, Indiana, and Wisconsin.

**BIODIVERSITY SYNTHESIS CENTER****Alta Buden**

Fieldwork: Zambia.

**Torsten Dikow**

Fieldwork: Arizona; California; Illinois; South Africa.

**Joshua Drew**

Fieldwork: Samoa, Tonga, Tuvalu, Fiji.

**Chris Jones**

Fieldwork: Illinois; Michigan; Wisconsin; Taiwan.

**James Parham**

Fieldwork: Illinois; Indiana; Turkey.

**Richard H. Ree**

Fieldwork: China

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION****Kevin A. Feldheim**

Fieldwork: Jupiter, FL.

## **PUBLIC EDUCATION AND OUTREACH, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

#### **Daniela Bono**

Education Programs: Field Museum Members' Nights.

#### **J. P. Brown**

Exhibit Development: Lead conservator, Moana Loan of Pacific Material to the Instituto Nacional de Antropología e Historia, Mexico City; Lead conservator, *Pacific Spirits Gallery*, *Nature Unleashed*, *Maori House*.

Education Programs: Courses for conservators and archaeologists from Iraq attending the Field Museum's Iraqi Cultural Heritage Project; Courses for conservators and museum professionals at the Institute for Preservation of Iraqi Cultural Heritage, Erbil, Iraq; Presentation, Field Museum Members' Nights.

Other: Behind-the-scenes tours for visiting scientists, VIPs, etc.

#### **L. Antonio Curet.**

Media Development: Interviews to several newspapers, Spanish radio and television shows for the *Real Pirates* exhibit.

Exhibit Development: Curator, *Real Pirates*.

Education Programs: Field Museum Members' Nights; Director, Taíno Project, Puerto Rican Arts Alliance.

Public Presentations: Public Lecture in *Areytos*, *Ballgames*; and *Batey*, Chicago; *Día de los Muertos* for Anthropology Alliance at the Mexican Fine Arts Center.

Other: Lecturer: Aspira, Von Humboldt and Lowell Elementary Schools; Lecturer: Prosser, Roberto Clemente, and Kelvin Park High School.

#### **Laure Dussubieux**

Education Programs: Iraqi training.

#### **Gary M. Feinman**

Exhibition Development: Co-curator, *The Aztec World*; Curator, *Nacimientos*.

Public Presentations: El Palmillo: Matatlán (Oaxaca, Mexico), The Field Museum (Education); *The Aztec World*: The Field Museum (Anthropology Alliance)

Media Development: Newspapers and magazines: *American Archaeology*, *Archaeology*, *Despertar* (3), *Excelsior*, *Imparcial*, *JM Seminal*, *Mexicon*, *National Geographic Magazine*, *Northwestern Alumni Magazine*, *Noticias* (2), *Tiempo* (2); Radio (live): *Noticias Urbanas*; Television: Reuters, Televisa, Televisión Azteca, WBBM-TV; Websites: Decider.com, El Informador, epoc, Instituto Nacional de Antropología e Historia, Little About, MaxiSciences.com, National Geographic News, NSS Oaxaca, Quadratín, Propuesta Oaxaca, Pulso Político, SDPnoticias, Spero News, Tiempo en línea, UANews.org, USAToday.com, Wissenschaft Aktuell; Additional international media in Hungary, Vietnam.

Other: Behind-the-scenes tours for Museum members, visiting scholars, visiting VIPS, etc.

Web Project: Featured Scientist, *expeditions@fieldmuseum*, Mexico.

#### **Chapurukha M. Kusimba**

Exhibit Development: Consultant, *Real Pirates*.

Educational Programs: Field Museum Members' Nights; Sankofa Celebrations Lecturer; Black History Month lectures; Numerous guided tours to visiting friends of the Museum and researchers through the *Africa* Exhibit Hall and collections; Public lecturer, Kimilili High School; Public lecturer, Café Science.

#### **Robert D. Martin**

Educational Programs: Co-organizer, Leakey Lectures, Field Museum-Leakey Foundation, The Field Museum, Chicago.

**Linda M. Nicholas**

Public Presentations: Public lecture on El Palmillo, Matatlán, Oaxaca, Mexico

Media Development: Newspapers and magazines: *American Archaeology*, *Archaeology*, *Despertar* (3), *Excelsior*, *Imparcial*, *JM Seminal*, *Mexicon*, *National Geographic Magazine*, *Northwestern Alumni Magazine*, *Noticias* (2), *Tiempo* (2); Radio (live): Noticias Urbanas; Television: Reuters, Televisa, Televisión Azteca, WBBM-TV; Websites: Decider.com, El Informador, epoc, Instituto Nacional de Antropología e Historia, Little About, MaxiSciences.com, National Geographic News, NSS Oaxaca, Quadratín, Propuesta Oaxaca, Pulso Político, SDPnoticias, Spero News, Tiempo en línea, UANews.org, USAToday.com, Wissenschaft Aktuell; Additional international media in Hungary, Vietnam.

Web Project: Contributor, *expeditions@fieldmuseum*, Mexico.

**Ruth E. Norton**

Exhibit Development: Exhibition Conservation Coordinator; Conservator, *Gem Hall*; Conservator, *Tibet* deinstall.

Education Programs: Curriculum planning and course presentation for Iraqi conservators and archaeologists participating in the Field Museum Iraqi Cultural Heritage Project; Field Museum Members' Nights.

Media Development: Radio: Chicago Public Radio/NPR *World View*, "Iraqi Cultural Heritage Program."

Other: Behind-the-scenes tours for Institutional Advancement, Women's Board, visiting VIPs, Auxiliary Groups, Board Relations, Major Gifts, ECCo, etc.; Tour, National Geographic Live Educator program. Anthropology Alliance events; Conservation consultation for Trustees and Women's Board.

**John Edward Terrell**

Exhibit Development: Moana Loan of Pacific Material to the Instituto Nacional de Antropología e Historia, Mexico City.

Educational Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours for visiting specialists, and VIPs, etc.; Anthropology Alliance events.

**Anne P. Underhill**

Exhibit Development: Content specialist, *Chinese Rubbings*; *Terracotta Soldiers*.

Other: Behind-the-scenes tours for Institutional Advancement, new Trustees, visiting VIPs, etc.

**Alaka Wali**

Exhibit Development: Curatorial Liaison for *Marae Gallery* exhibits: *Sacred Water: The Kumbh Mela*; *Bunce Island*; *Hapa—Part Asian, 100% American*; Curatorial Liaison for Special Traveling Exhibit: *Road To Freedom*; Content Development Specialist, *Abbott Hall of Conservation*.

Education Programs: Opening of the *Kumbh Mela: Sacred Waters* Exhibit Presentation; Presentation at Little Black Pearl Workshop on Community Building at Lake Park Crescent.

Public Presentations: Anthropology Alliance, Women's Board Annual Meeting.

Web Projects: Lake Park Crescent Building Community; New Allies for Nature and Culture; Cultural Connections.

Other: Behind-the-scenes tours for Institutional Advancement, New Trustees Orientations.

**Patrick Ryan Williams**

Education Programs: Featured Scientist, "Climate and Civilization," filmed in Cuzco, Peru, by Climatic Productions, Toronto, Canada.

Other: Field Museum Tours: South America's Ancient Civilizations.

**DEPARTMENT OF BOTANY****Mark Alvey**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours for students and faculty from Chicago Initiative for Research and Recruitment in Undergraduate Science (DePaul University, Harold Washington College, and Truman College), University of Chicago Post-Baccalaureate Research Education Program, and Danville



Community College.

**Anna Balla**

Education Programs: Field Museum Members' Nights.

**Laura Briscoe**

Education Programs: Field Museum Members' Nights.

**William Burger**

Education Programs: Field Museum Members' Nights.

**Michael O. Dillon**

Web Projects: Developer and Webmaster, Andean Botanical Information System, *ABIS* ([www.sacha.org](http://www.sacha.org)).

**Darlene Dowdy-Pritchett**

Education Programs: Field Museum Members' Nights.

**Krysta Duran**

Education Programs: Field Museum Members' Nights.

**Wyatt Gaswick**

Education Programs: Field Museum Members' Nights.

**Anders Hagborg**

Education Programs: Field Museum Members' Nights.

**Sabine Huhndorf**

Education Programs: Field Museum Members' Nights.

**Maria Lucia Kawasaki**

Education Programs: Field Museum Members' Nights.

Web Projects: Contributor, *Flowering Plants of the Osa Peninsula, Costa Rica, The New York Botanical Garden* ([http://sweetgum.nybg.org/osa/family\\_list.php](http://sweetgum.nybg.org/osa/family_list.php)); Contributor, *Plants and Lichens of Saba, The New York Botanical Garden* (<http://sweetgum.nybg.org/saba/taxon.php?irn=786>); Contributor, *Flora Mesoamericana, Missouri Botanical Garden* ([http://mobot.mobot.org/cgi-bin/search\\_vast](http://mobot.mobot.org/cgi-bin/search_vast)).

**Patrick Leacock**

Education Programs: Field Museum Members' Nights; Behind-the-scenes tours for AAAS Evolution Summit and for CIMBY Science Summit; Instructor, Interpreting Fungal Ecology, Morton Arboretum Naturalist Certification Program; Co-instructor, Mushrooms in Watercolor and Gouache, Morton Arboretum Naturalist Certification Program.

Public Presentations: Informal Lectures, Illinois Mycological Association, North Park Village Nature Center, Chicago.

Tours and Field Trips: Field trips, Illinois Mycological Association.

Web Projects: Content and Design Developer, *vPlants.org* website.

**Robert Lücking**

Education Programs: High School Education Program, Teachers Workshops at The Field Museum.

**Thorsten Lumbsch**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours for donors, Trustees, and other VIPS.

**Joanna McCaffrey**

Education Programs: Field Museum Members' Nights.

**Christine Niezgoda**

Education Programs: Field Museum Members' Nights.

Other: Herbarium tours for various external groups including Chicago Botanic Garden, Harold Washington University, Chicago, Maharishi University, Fairfield, Iowa, as well as Field Museum Trustees, Annual Fund members, and other Institutional Advancement constituents.

**Richard H. Ree**

Web Projects: Developer, Biodiversity of the Hengduan Mountains website/database.

**Betty Strack**

Education Programs: National Geographic BioBlitz at the Indiana Dunes National Lakeshore.

**Gayle Tonkovich**

Education Programs: Field Museum Members' Nights.

Exhibit Development: Consultant, Visitor Gallery interactive, Chicago Botanic Garden, Glencoe, IL.

Media Development: Interviewed for student documentary on *Thismia americana*, for Columbia College, Chicago.

Web Projects: Coordinator, *vPlants: A Virtual Herbarium of the Chicago Region* (<http://www.vplants.org>); Collaborator and Contributor, *Keys to Nature Project* (<http://fm1.fieldmuseum.org/keystonature/>).

Other: Team Leader, National Geographic Society and National Park Service BioBlitz 2009, Indiana Dunes National Lakeshore, Porter, IN; Presenter, Keys to Nature booth, National Geographic Society and National Park Service BioBlitz 2009 at Indiana Dunes National Lakeshore, Porter, IN.

**Matt von Konrat**

Education Programs: Field Museum Members' Nights; Public presentations, Lincoln Park Conservatory, Chicago Park District; Public presentations, American Theater Company (for FMNH Café Science Program).

Web Projects: Editor, *Liverworts*, The New Zealand Plant Conservation Network ([www.nzpcn.org.nz](http://www.nzpcn.org.nz)); Editor, *Bryophytes*, DiscoverLife ([www.discoverlife.org/bryophyta](http://www.discoverlife.org/bryophyta)); Developer and Editor of the GBIF funded *Early Land Plants Today* (<http://www.early-land-plants-today.org>); Contributor, [www.biology.duke.edu/bryology/LiToL/](http://www.biology.duke.edu/bryology/LiToL/).

Other: Various Behind-the-Scenes tours.

**DEPARTMENT OF GEOLOGY****Kenneth D. Angielczyk**

Education Programs: Field Museum Members' Nights; Speaker, Annual Fund/Council on Africa/President's Leadership Council event; Participant, Founder's Council breakfast; Speaker, Donor Event; Speaker/Tour Leader, Trustee Prospect Dinner.

Media Development: Fieldwork in Zambia covered by local media including the *Times of Zambia* and *The Post*.

Web Projects: Collaborator, *I Dig Zambia!* Program for Chicago, New York City, and Mfuwe students, Field Museum-BioSynC-Global Kids-Chipembe Wildlife Education Trust, Luangwa Basin, Zambia.

**Marlene Hill Donnelly**

Education Programs: Field Museum Members' Nights.

**Jörg Fröbisch**

Education Programs: Field Museum Members' Nights.

Media Development: Various interviews with local and international media: *BBC*, *Chicago Tribune*, *Chicago Sun-Times*, *National Geographic Program*, *New Scientist*, *Science Daily*.

**Ian Glasspool**

Exhibition Development: Content advisor, *Mammoths and Mastodons*.

Public Presentations: Behind-the-scenes tours: donors, university groups; Fossil identification for members of the public.

Other: "Fossil Plant Lab," Eastern Illinois University and Cornell College, Mt. Vernon, IA, held at The Field Museum.

### **Lori Grove**

Public Presentation: Scientific Illustration/Advanced Scientific Illustration class, Department of Visual Communications Design at the School of the Art Institute of Chicago.

Other: Sponsor participant, Chicago Blues Festival, Grant Park; Tour guide of historic Maxwell Street for the Great Chicago Places and Spaces Annual Event and Chicago History Museum educator event; Advisory Council member, South Loop Historical Society.

### **Lisa Herzog**

Education Programs: Field Museum Members' Nights; Behind-the-scenes tours; "Dozin' with the Dinos" Overnights.

Public Presentations: 2009 AAAS Middle School Summit on Evolution; 2009 Calumet Is My Back Yard (CIMBY) Science Summit.

### **James Holstein**

Education Programs: Field Museum Members' Nights; High School Transformation Project; Friends of Geology event; Readers are Leaders program; Scientist on the Floor.

Public Presentation: Invited lecturer, Earth Science Club of Northern Illinois, College of DuPage, Glen Ellyn-Lombard, IL.

Other: Donor Family tour, fossil prep labs; Donor tour, Gemstones; Donor tour, Pritzker Meteorite Center; *Grainger Hall of Gems* exhibit development workshop; Meteorite and mineral identification for general public; Women's Board Gala and Founder's Council dinner for the opening of the *Grainger Hall of Gems*; Polar Panel guide of the Robert A. Pritzker Center for Meteoritics and Polar Studies.

### **Scott Lidgard**

Education Programs: Field Museum Members' Nights.

Web Projects: Coordinator, *Bryozone*, [www.bryozone.net](http://www.bryozone.net).

Other: Behind-the-scenes tours to visiting scientists, college and university biology and geology classes.

### **Peter J. Makovicky**

Education Programs: Field Museum Members' Nights; Behind-the-scenes tours.

Exhibit Development: Content development/fact checking, *A T-rex Named Sue*, 3-D movie.

Media Development: Interviews with various international media (e.g. *Science Times*, *BBC*, *Chicago Tribune*).

Public Presentations: Presentation on Chinese fieldwork and discoveries to Annual Fund Council.

### **Paul S. Mayer**

Education Programs: Field Museum Members' Nights.

Other: Mazon Creek Fossil Field Trip; Various behind-the-scenes collections tours.

### **Olivier Rieppel**

Education Programs: Field Museum Members' Nights.

Media Development: Various media interviews.

Other: Behind-the-scenes tours of collections and *Evolving Planet* for various donors and groups; Presenter, Board of Trustees Meeting.

### **Akiko Shinya**

Education Programs: Field Museum Members' Nights; Behind-the-scenes tours; "Dozin' with the Dinos" Overnights; Specimen Conservation, Harris Education Loan Program; Field guide, Fossil Hunt at Mazon Creek.

Exhibit Development: Specimen preparation, *Grainger Hall of Gems*; Fossil Conservation, *Mammoths*

and Mastodons.

Other: Various behind-the-scenes lab and collections tours.

### **William F. Simpson**

Education Programs: Field Museum Members' Nights.

Exhibit Development: Content Advisor, *Mammoths and Mastadons* traveling exhibit; Member, *SUE 2010* development team.

Media Development: Various media interviews on paleontology.

Public Presentations: Invited lecturer, New Trier High School for T.E.L.L. day ("Teach, Experience, Live, Learn").

Other: Managed deaccession and transfer of Blaschke brontothere sculptures (family of 3) to South Dakota School of Mines and Technology; Worked with New Trier High School student on a career experience day; Various behind-the-scenes tours for donors, university groups; Fossil identification for members of the public.

### **Paul Sipiera**

Education Programs: Field Museum Members' Nights.

Public Presentations: Presenter, Harper College, Palatine, IL; Presenter, Guardians Conservation Group meeting, Galena, IL; Host, monthly astronomy viewing sessions, Elizabeth, IL.

Media Development: Technical Advisor, The Learning Channel's *Accidental Fortune* series.

Other: Host, the Tawani International Antarctic Expedition's opening of the Robert A. Pritzker Center for Meteoritics and Polar Studies, The Field Museum.

### **Nathan D. Smith**

Public Presentations: Presenter, Ruth Hall Museum of Paleontology, Ghost Ranch, NM.

Other: Consultant, "Carnegie Collection" toy series, Carnegie Museum of Natural History; Various behind-the-scenes collections tours; Instructor, "Paleontology at Ghost Ranch SW 632," Ghost Ranch, NM.

### **Constance Van Beek**

Education Programs: Field Museum Members' Nights.

### **Deborah Wagner**

Education Programs: Field Museum Members' Nights; "Dozin' with the Dinos" family overnights; Scientist on the Floor.

Other: Behind-the-scenes tours of Vertebrate Fossil Prep Lab and collections: Donors, consultants, Annual Fund contributors, Board of Trustees, Institutional Advancement, etc.; Fossil identifications for members of the public.

### **Lindsay E. Zanno**

Education Programs: Teacher Training: Early Elementary Science Partners (E2SP).

Media Development: Print media interviews: *Chicago Sun Times*, *Chicago Tribune*, *Florida Daily News*, *Florida Times-Union*, *Live Science*, *National Geographic* and *Salt Lake Tribune*, international syndication in newspapers and websites; Film interviews: 3-D film production *A T-rex Named Sue*, Giant Screen Films, Chicago and *3-D Dinos*, Atlantic Productions, London, UK.

Other: Tours of geology collections for donors; Donor lunch-ins.

## **DEPARTMENT OF ZOOLOGY**

### **John M. Bates**

Education Programs: Field Museum Members' Nights; DePaul University Architecture class; Urban leadership Academy class; Chicago Academy class; Morton Arboretum Evolution Course; *Conservation Hall* brainstorming meeting.

Exhibit Development: Collections and Research Lead Content Advisor, *Conservation Hall*; Participant, *Conservation Hall* benchmarking trip, Arizona; Content advisor, *Comer Climate Change Hall*.

Public Presentations: TFM Board of Trustees' Committee on Science; Parker-Gentry Award; Africa Council; World Presidents' Organization, Bhutanese scientific delegation.

Media Development: Interviews: *Associated Press*, *Chicago Sun-Times*, *Chicago Tribune*, *Wall Street Journal*; Institution of Museum and Library Service Press event.

Web projects: Content Specialist, *Collaborations in Congo* website; Content Specialist, *African Biodiversity Training Program* website; Content specialist, *expeditions@fieldmuseum*, Amazonia.

Other: Various collection tours and presentations about the Department of Zoology and the Bird Division.

### **Rüdiger Bieler**

Education Programs: Field Museum Members' Nights.

Public Presentations: Various lectures on molluscan diversity.

Web Projects: Developer, [www.bivatol.org](http://www.bivatol.org); Developer, <http://peet.fmnh.org>; Developer, *Malacological Journals & Newsletters*, <http://emuweb.fieldmuseum.org/iz/Query.php>; Featured Scientist, *expeditions@fieldmuseum*, Australia; Advisory Board member, *Grzimek's Encyclopedia of Animal Life*.

Other: Various behind-the-scenes tours for visiting VIPs; Field and laboratory photographs for various exhibition and textbook projects.

### **James H. Boone**

Education Programs: Field Museum Members' Nights.

Exhibit Development: Content Specialist, *Natural Art of Nests*, Chicago Botanic Garden.

Other: "Creepy Creatures" event; Various behind-the-scenes collections tours; Information poster display case, Institutional Archives, Zoology Invertebrates and Insects Divisions; Former Insects curators display.

### **Stephanie Clark**

External: Manuscript reviewer, *Zoological Journal of the Linnean Society*.

### **Jochen Gerber**

Education Programs: Field Museum Members' Nights.

Other: Various behind-the-scenes collections tours; "Creepy Creatures" event.

### **Steven M. Goodman**

Media Development: Newspaper and magazine interviews: *La Monde*, *National Geographic*, *National Geographic France*, *New York Times*; Radio interviews: Radio France International, various additional Malagasy radio stations; Television interview, Malagasy Broadcasting Company, France 5.

### **Shannon J. Hackett**

Education Programs: Field Museum Members' Nights, Education Department programming for science teachers; Education Department programming, *DNA Discovery Center*, *DNA Discovery Center* High School and Teacher Internship program, Field Museum; Consultant, NIH-University of Chicago creation of evolution and genomics programs; Education Department Teacher Training Workshops.

Exhibit Development: Curator, *DNA Discovery Center*.

Media Development: Newspaper interview, *Chicago Sun-Times*; Featured scientist, *National Geographic*.

Web Projects: Content Specialist, *DNA Discovery Center* website; Content Specialist, *Pritzker Lab* website; Content Specialist, *Early Bird Tree of Life* website; Content Specialist, *DNA Discovery Center's* Facebook page.

Other: Presentation to Ayer Foundation; Behind-the-scenes tours for various groups.

### **Lawrence R. Heaney**

Media Development: Newspaper and radio interviews: Chicago Public Radio, *Chicago Sun-Times*, *Chicago Tribune*.

Other: Behind-the-scenes tours of research and collection areas for Institutional Advancement, President's Office, and Field Museum Trustees; featured speaker at Chicago area dinners; Presenter, Founder's Council "Loop Luncheon."

### **Mary Hennen**

Education Programs: Field Museum Members' Nights.



Public Presentations: American Association for the Advancement of Science; Chicago Public Library; Arlington Heights Park District; Illinois Wesleyan University; Illinois Audubon Society; Environmental Protection Agency; Museum of Science and Industry.

Media Development: Newspaper and television interviews: ABC Channel 7 news, *Chicago Sun-Times*, *Chicago Tribune*; Evanston Roundtable.

Other: Various behind-the-scenes tours.

### **Janeen Jones**

Education Programs: Field Museum Members' Nights.

Other: Various behind-the-scenes collection tours.

### **Kathleen Kelly**

Other: Behind-the-scenes collection tours.

### **Julian C. Kerbis Peterhans**

Media Development: Newspaper interview, *Chicago Tribune*.

TV Production: "Maneaters," Pangolin Pictures, Next-Film Productions, Toronto.

Other: Behind-the-scenes tours of research and collection areas for public and university groups.

### **Nicholas J. Lang**

Education Programs: Field Museum Members' Night.

Other: Behind-the-scenes tours for various groups and individuals.

### **Corrie S. Moreau**

Education Programs: Presenter, Field Museum summer intern program.

Public Presentations: Annual Fund Behind-the-Scenes event, Field Museum (lecture and tour).

Media Development: Research on ant-bacteria symbiosis (PNAS 2009) featured on several news and media websites.

Web projects: Personal Field Museum website; Ant Genomics website.

Other: Various collection tours and presentations about the *DNA Discovery Center* and Division of Insects.

### **Alfred F. Newton**

Education Programs: Field Museum Members' Nights.

Web Projects: Database developer, NSF-PEET project *Austral Staphylinidae* web site.

### **Bruce D. Patterson**

Education Programs: Field Museum Members' Nights; Museology Explorers, Chicago Public Schools.

Exhibit Development: Reviewer, prospective temporary shows; Content Advisor, *Conservation Hall*; Content Advisor, *Rice Hall* renovation.

Public Presentations: President's Quarterly address.

Media Development: Various radio, newspaper and television interviews on bats and man-eating lions.

Tours and Field Trips: Expedition leader, Earthwatch programs in Tsavo (2); Developer and organizer, 2010 tour of southern Tanzania and Rwanda.

Web Projects: Personal webpages (Google site); *Lions of Tsavo* pages (Earthwatch); Council on Africa (Google site); African Training Program (Google site).

Other: Field Associates breakfast.

### **Martin D. Prydzia**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours.

### **Alan Resetar**

Education Programs: Field Museum Members' Nights; Presenter, "Amphibians and Reptiles of the Calumet Region" for Ford Environmental Leadership Interns.

Public Presentations: Presenter, public workshop in preparation for National Geographic Society and National Park Service Indiana Dunes BioBlitz.

Tours and Field Trips: Team leader, National Geographic Society and National Park Service Indiana Dunes BioBlitz; Field trip leader, Project Exploration organization field trip at Indiana Dunes BioBlitz; Field trip leader, Indiana Dunes National Lakeshore's Green Gary event; Tours of the amphibian and reptile collection for various college/adult education classes.

### **Mary Anne Rogers**

Education Programs: Field Museum Members' Nights.

### **Petra Sierwald**

Web Projects: Advisory Board member: *Grzimek's Encyclopedia of Animal Life*.

### **W. Leo Smith**

Education Programs: Presenter, Founder's Council; Presenter, Friends of Zoology/Founder's Council; Instructor, System's Biology Program.

Public Presentations: Presenter, Meet the Scientist Hour, *DNA Discovery Center*.

Media Development: Website interview, LiveScience.com.

### **William T. Stanley**

Education Programs: Field Museum Members' Nights; Tanzanian educational outreach products (posters, calendars, booklets).

Exhibit Development: Advisor, *Mammoths and Mastodons*; Advisor, *Conservation Hall*.

Web Projects: Developer, *Mammals of Tanzania*.

Other: Behind-the-scenes tours for Institutional Advancement, new Trustees, visiting VIPs, etc.

### **Sid E. Staubach**

Other: Behind-the-scenes tours for Institutional Advancement, new employees, students, visiting specialists.

### **Kevin Swagel**

Education Programs: Field Museum Members' Nights, Field Museum Behind-The-Scenes; Lead Darwin's Legacy and Evolution: Behind the Scenes at The Field Museum, 2009 Calumet Is My Back Yard (CIMBY), 2009 Educator Open House tours of the Fish Division.

Other: Behind-the-scenes tours for a variety of groups and individuals.

### **Margaret K. Thayer**

Education Programs: Field Museum Members' Nights; Friends of Zoology/Founders' Council event; NGS-NPS Indiana Dunes BioBlitz: led field teams and spoke at closing ceremony.

Media Development: NGS-NPS Indiana Dunes BioBlitz WBEZ radio interview (on air & website), NW *Indiana Times* newspaper interview (front page coverage & website).

Web Projects: Primary developer, Division of Insects' EMu collection database web site; FMNH-AAUP chapter website.

Other: Behind-the-scenes tours for Brown (University) Women of Chicago and a high school class; Founders' Council Loop Luncheon; Photo contributor, *Gem and Gemstones: Timeless Natural Beauty of the Mineral World*, by Lance Grande and Allison Augustyn.

### **Janet R. Voight**

Education Programs: Presentations, Field Museum Members' Nights; Creepy Creatures Zoology Friends/Founders' Council Event.

Public Presentations: Field Associates lecturer; Invited lecturer, World President's Organization Symposium on Climate Change (2).

Media Development: Interview and photo shoot for *Link*, Iowa State University College of Arts and Sciences Alumni magazine.

Web Projects: Contract for data conversion to export parts of our collection database to ChEss (Chemosynthetic Ecosystem Science) which is focused on hydrothermal vents, cold seeps and wood falls.

Other: Numerous behind-the-scenes tours for Institutional Advancement, Field Museum Interns.

### **Jason D. Weckstein**

Media Development: Radio, NPR *All Things Considered*, "Big-Beaked Toucans Play it Cool," <http://www.npr.org/templates/story/story.php?storyId=106920166>.

Web Projects: Content advisor, upcoming *expeditions@fieldmuseum* site.

Other: Various preparation room presentations about birds and their ectoparasites and Behind-the-scenes tours of Bird Division.

### **Mark W. Westneat**

Education Programs: Tour and demonstration for Chicago Summer Bioinformatics Institute; Facilitator, I Dig Zambia digital summer camp; Facilitator: WhyReef Kids Advisory Council.

Web Projects: Research web site, software development, Encyclopedia of Life, Biodiversity Synthesis Center.

Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, Collections and Research Board members, visiting classes.

### **David Willard**

Education Programs: Middle School Teacher Workshop; Science Summit; Pirate Camp; Teacher Workshop; Museology High School; Museology Middle School; Education Open House.

Public Presentations: Field Museum Members' Nights; Chicago Cultural Center; Lake-Cook Audubon Society; Chicago Ornithological Society; McHenry County Audubon Society; Isaac Walton League; Chicago Audubon Society; St. Charles Park District; Chicago Bird Collision Monitors.

Donors Programs: Group Sales (2); Underground Adventure Evening Program.

### **Philip Willink**

Education Programs: Field Museum Behind-The-Scenes.

Exhibit Development: Content consultant, *Water*; Content consultant, *Chicago: Your City, Your Water*.

Media Development: Magazine interview, *In The Field*; Newspaper interviews: *Chicago Sun-Times*, *Northwest Herald*, *Southtown Star*; Television interviews: BBC, ABC7, WGN9, NBC5.

Other: Behind-the-scenes tours for a variety of groups and individuals.

## **BIODIVERSITY SYNTHESIS CENTER**

### **Audrey Aronowsky**

Education Programs: Field Museum Members' Nights; Mentor, Indiana Dunes BioBlitz; Facilitator, I Dig Zambia digital summer camp; Facilitator, WhyReef Kids Advisory Council.

Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, visiting classes.

### **Alta Buden**

Education Programs: Field Museum Members' Nights; Women's Board annual luncheon; Mentor, Mfuwe Secondary School, Mfuwe, Zambia; Facilitator, I Dig Zambia digital summer camp; Facilitator, WhyReef Kids Advisory Council.

Web Projects: Website development, Encyclopedia of Life, Biodiversity Synthesis Center.

Other: Behind-the-scenes tours for Institutional Advancement, prospective donors.

### **Karen Cranston**

Education Programs: Mentor, Indiana Dunes BioBlitz.

### **Torsten Dikow**

Education Programs: Mentor, Indiana Dunes BioBlitz.

**Joshua Drew**

Education Programs: Mentor, Indiana Dunes BioBlitz; Mentor, Calumet is My Backyard program; Facilitator, WhyReef Kids Advisory Council.

**Chris Jones**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours.

**Kannan Mahadevan**

Education Programs: Mentor, Indiana Dunes BioBlitz; Facilitator, I Dig Zambia digital summer camp; Facilitator, WhyReef Kids Advisory Council.

**Susan Mochel**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours.

**James Parham**

Education Programs: Field Museum Members' Nights; Mentor: Indiana Dunes BioBlitz.

**Beth Sanzenbacher**

Education Programs: Field Museum Members' Nights; Mentor: Indiana Dunes BioBlitz; Facilitator for Digital Media Table, Education Open House; Guest Facilitator, Museology; Tour and demonstration for Chicago Summer Bioinformatics Institute; Lead Facilitator, I Dig Zambia digital summer camp; Lead Facilitator, WhyReef Kids Advisory Council.

**Darolyn Striley**

Education Programs: Field Museum Members' Nights; Mentor: Indiana Dunes BioBlitz.

**Kristopher Urie**

Education Programs: Field Museum Members' Nights; Mentor: Indiana Dunes BioBlitz.

Web Projects: Website development, Encyclopedia of Life, Biodiversity Synthesis Center.

**Jason Weckstein**

Education Programs: Field Museum Members' Nights; Mentor: Indiana Dunes BioBlitz.

**Mark W. Westneat**

Education Programs: Tour and demonstration for Chicago Summer Bioinformatics Institute; Facilitator, I Dig Zambia digital summer camp; Facilitator: WhyReef Kids Advisory Council.

Web Projects: Research web site, software development, Encyclopedia of Life, Biodiversity Synthesis Center.

Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, Collections and Research Board members, visiting classes.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION****Kevin A. Feldheim**

Education Programs: *DNA Discovery Center* High School and Teacher Internship program; Education Programming, *DNA Discovery Center* exhibit; Participant, Systems Biology Exploration Camp, and Teaching Systems Biology and Genetics Through Inquiry.

Web Projects: Content Specialist, *DNA Discovery Center* website, Content Specialist, *Pritzker Lab* website.

Other: Various behind-the-scenes collections tours.

**Erin Sackett-Hermann**

Web Projects: *DNA Discovery Center* Facebook page.

Other: Various behind-the-scenes collections tours.

**Erica Zahnle**

Education Programs: *DNA Discovery Center* High School and Teacher Internship program; Education Programming, *DNA Discovery Center* exhibit; Coordinator, Systems Biology Exploration Camp, and Teaching Systems Biology and Genetics Through Inquiry, participant, Educator Open House.

Web Projects: *DNA Discovery Center* Facebook page.

Other: Various behind-the-scenes collections tours.

**OFFICE OF COLLECTIONS AND RESEARCH**

**Deborah Bekken**

Exhibit Development: Content specialist, *Chinese Rubbings*.

**R. Carter O'Brien**

Exhibit Development: Content advisor, *Conservation Hall*.

Web Projects: *A Greener Field* Facebook page.



## **HIGHER EDUCATION, 2009**

(College/University Teaching, Graduate Advising, Internships, etc.)

### **DEPARTMENT OF ANTHROPOLOGY**

#### **J. P. Brown**

Undergraduate Interns: Michael Seiler, University of Illinois at Urbana-Champaign; Cassandra Davie, School of the Art Institute of Chicago.

Trainees: Lauren Fahey, Wellesley College; Jennie Phelps, University of Chicago.

#### **L. Antonio Curet**

Graduate Students Advised: William Pestle, University of Illinois at Chicago.

Graduate Interns: William Pestle, University of Illinois at Chicago; Joshua Torres, University of Florida.

Courses: "The Anthropology of Food," Northwestern University; "The Archaeology of Food," University of Illinois at Chicago; "Introduction to Archaeology," University of Illinois at Chicago.

#### **Gary M. Feinman**

Undergraduate Interns: Tasha Obrin, Iowa State University; Alicia Nieves, University of Pittsburgh.

Undergraduate Student Advisees: Sr. thesis: Lacey Carpenter, Northwestern University; Independent study/Honor's Program: Hilary Leathem, University of Illinois at Chicago.

#### **Chapurukha M. Kusimba**

Interns: Rebecca Caroli, University of Arizona.

Mentorships: Alisson Mickel, College of William and Mary; Karim Miles, Perspectives High School-Calumet; Victoria Bradley, Perspectives High School-Calumet; Carla Klehm, University of Texas at Austin, Chicago, Amelia Hubbard, The Ohio State University; Ibrahim Busolo, University of Nairobi.

#### **Robert D. Martin**

Courses: "Primate Evolution," University of Chicago; "Primate Evolution," Primates and Human Evolution program for Study Abroad students at the Paris Center of the University of Chicago.

Other: Graduate student selection committee, Committee on Evolutionary Biology, University of Chicago.

#### **Linda M. Nicholas**

Undergraduate Interns: Tasha Obrin, Iowa State University; Lacey Carpenter, Northwestern University; Hilary Leathem, University of Illinois at Chicago; Alicia Nieves, University of Pittsburgh.

#### **Ruth E. Norton**

Graduate Courses: "Conservation of Ethnographic Materials," Art Conservation Department, SUNY Buffalo State College.

Undergraduate Interns: Cassandra Davis, School of the Art Institute of Chicago; Anna Weiss, Bradley University; Jennie Phelps, University of Chicago.

#### **John Edward Terrell**

Interns: Caitlin Andrew; Jeremy Bleeke.

#### **Anne P. Underhill**

Graduate Students Advised: Rory Dennison, University of Illinois at Chicago; Nam Kim, University of Illinois at Chicago; Debra Green, University of Illinois at Chicago; Lisa Niziolek, University of Illinois at Chicago; Sofia Chacaltana Cortez, University of Illinois at Chicago; Lin Hu, University of Chicago; Charles Hartley, University of Chicago; Adam Schwartz, University of Chicago; Yu Dong, University of Illinois at Urbana-Champaign; Rheta Lanehart, University of South Florida.

Undergraduate Interns: Jennifer Wong, Northwestern University; Adrienne Chen, Skidmore College.

**Alaka Wali**

Graduate Students Advised: Paul Bick, Dept. of Anthropology, University of Illinois at Chicago; Zachary Blair, University of Illinois at Chicago; Christine Dunford, Northwestern University (Ph.D. completed, June); Ruth Gomberg, Dept. of Anthropology, UIC (Ph.D. completed, May); Evin Rodkey, University of Illinois at Chicago.

**Patrick Ryan Williams**

Courses: "Landscape Archaeology and GIS," University of Illinois at Chicago.

Graduate Students Advised: Sofia Chacaltana, University of Illinois at Chicago; Robin Coleman, Northwestern University; Kirk Costion, University of Pittsburgh; Rebecca Deeb, University of Illinois at Chicago; Mark Golitko, University of Illinois at Chicago; Will Pestle, University of Illinois at Chicago; Russell Quick, University of Illinois at Chicago; Kenneth Sims, University of Michigan; Nicola Sharratt, University of Illinois at Chicago; Jen Starbird, University of Illinois at Chicago; Ben Vining, Boston University.

**DEPARTMENT OF BOTANY****Wyatt Gaswick**

Undergraduate Interns: Erin R. Ewald, University of Chicago; Matthew F. Hart, University of Chicago; Nina F. Noah, University of Chicago.

**Sabine Huhndorf**

Postdoctoral Associates: Matthew Greif, Itthayakorn (Pam) Promputtha.

Graduate Students Advised: George Mugambi, University of Illinois at Chicago.

**Patrick Leacock**

Graduate Interns: Elizabeth K. Karczynski, Northern Illinois University, DeKalb.

Undergraduate Interns: Erin R. Ewald, University of Chicago; Nina F. Noah, University of Chicago; Matthew F. Hart, University of Chicago.

**Robert Lücking**

Graduate Students Advised: Eimy Rivas Plata, University of Illinois at Chicago; Matthew Nelsen, University of Chicago; Alejandrina Bárcenas Peña, Universidad Nacional Autónoma de México; Ricardo Miranda, Universidad Nacional Autónoma de México; Daniela Lizano, Universidad de Costa Rica; Jocabed Guerra, Panama; Dania Rosabal López, Universidad de Oriente, Santiago de Cuba; Bibiana Moncada, Universidad Nacional de Colombia; Nathalia Ramos, Universidad Nacional, Colombia; Nancy Mateus, Universidad Nacional, Colombia; Adriana Ardila, Universidad Distrital, Colombia; Jesús Hernández, Universidad Simón Bolívar, Venezuela; Manuela dal Forno, Universidade Federal de Parana, Brazil; Adriano Spielmann, Instituto de Botanica, Sao Paulo, Brazil.

**Thorsten Lumbsch**

Graduate Students Advised: Eimy Rivas Plata, University of Illinois at Chicago; Todd Widhelm, University of Illinois at Chicago.

**Richard H. Ree**

Graduate Students Advised: Research advisor: Deren Eaton, University of Chicago; Jacqueline Van De Veire, University of Illinois at Chicago; Committee Member: Sara Branco, University of Chicago; Diane McCarthy, University of Illinois at Chicago; Michael Jorgenson, University of Illinois at Chicago; Tracy Misiewicz, Northwestern University

Undergraduate Interns: Brian Wray, Northeastern Illinois University.

Teaching: "Reconstructing the Tree of Life: an introduction to systematics and phylogenetic biology," University of Chicago; Workshop on biogeographic methods, Mainz, Germany

**Matt von Konrat**

Graduate Students Advised: Ryan Thomas de Roo, University of Cape Town, South Africa.

Undergraduate Interns: Stephen Battersby, Harold Washington College; Emine Kochakova, Oakton Community College; Gabrielle Lopez, Roosevelt University; Miguel Rojas, DePaul University; Lynika Strozier, Dominican University.

## **DEPARTMENT OF GEOLOGY**

### **Kenneth D. Angielczyk**

NSF REU Intern: Co-advisor, William Adams, Loyola University, Chicago.

Course: "Environmental History of the Earth," Department of Geophysical Sciences, University of Chicago.

### **Marlene Hill Donnelly**

Courses: Scientific Botanical Illustration, certificate required course, Morton Arboretum; Landscape Painting in Watercolor and Pastel, Morton Arboretum; Botanical Illustration, White and Black Stipple, Morton Arboretum; Chicago Botanic Garden, certificate required courses: Botanical Painting and Illustration; Botanical Drawing I; Botanical Drawing II; Color Mixing; Landscape Painting in Pastel.

### **Ian Glasspool**

Undergraduate Interns: Kelsey Feser, Cornell College, Mount Vernon, IA; Rebecca Koll, University of Minnesota, MN.

### **James Holstein**

Course: "Stones and Bones," teaching assistant for undergraduate level course, University of Chicago.

### **Scott Lidgard**

Graduate Students Advised: Paul Harnik, Committee on Evolutionary Biology, University of Chicago; Erin Grey, Department of Ecology and Evolution, University of Chicago; Christine Belanger, Department of Geophysical Sciences, University of Chicago.

### **Peter J. Makovicky**

Postdoctoral Associate: Lindsay E. Zanno.

Graduate Students Advised: Brandon Kilbourne, Rudyard Sadleir, Nate Smith, (all Committee on Evolutionary Biology, University of Chicago); Clint Boyd, University of Texas at Austin.

### **Olivier Rieppel**

Graduate Student Advised: Rebecca Dikow, University of Chicago.

Course: "Evolutionary Morphology of Vertebrates," undergraduate level, Northwestern University.

### **William F. Simpson**

Graduate Student Intern: Katherine Bevington, Cooperstown Graduate Program, Cooperstown, NY.

### **Paul Sipiera**

Course: "Honors Astronomy," undergraduate level, Harper College, Palatine, IL.

### **Nathan D. Smith**

Trainees: Supervised (along with 3 other PIs) 6 graduate students (from University of Utah, University of California, Berkeley, University of Texas, Austin), 5 undergraduate students (from University of Utah, Kalamazoo College, Brown University, College of the Holy Cross), and 3 undergraduate interns (from Petrified Forest National Park) during paleontological fieldwork in Ghost Ranch, NM.

Courses: "Fossil Mammals of the White River Badlands" summer undergraduate course, Augustana College; "Environmental Ecology," undergraduate course, University of Chicago; Guest lecturer, "Reconstructing the Tree of Life" undergraduate/graduate course, University of Chicago.

### **Lindsay E. Zanno**

Undergraduate Student Advised: Natalia Wilkins, Lake Forest College, Lake Forest, IL.

Graduate Student Advised: Christopher McGarrity, University of Toronto (MS student accepted), Toronto, Canada.

## **DEPARTMENT OF ZOOLOGY**

### **John M. Bates**

Graduate Students Advised: Emma Gregg, Lucinda Lawson, Aaron Savit, Sarah Weyandt, Ben Winger, University of Chicago; Muhammad Abu Baker, Luca Borghesio, Isabel Caballero, University of Illinois at Chicago; Raoul Davion, Charles Stuart University; Cathy Bechtoldt, University of Illinois at Urbana-Champaign; Heather Shull, Boston University; Prince Kaleme, Potiphar Kaliba, University of Cape Town, South Africa; Esther Quintero, American Museum of Natural History, Marcos Maldonado, Eliot Miller, University of Missouri, St. Louis.

Undergraduate Interns: Holly Lutz, University of Chicago; Swati Patel, Northwestern University.

High School Interns: Dylan Blanchard, Jake Hays, Evanston Township High School.

Courses: Lecturer, Organization for Tropical Studies “Ecology and Conservation of Neotropical Birds” Costa Rica.

### **Rüdiger Bieler**

Postdoctoral Associates: Stephanie Clark, Sid Staubach, Field Museum.

Graduate Students Advised: John Wilk, University of Illinois at Chicago.

Courses: “From So Simple a Beginning: Evolution,” University of Chicago.

### **James H. Boone**

Undergraduate Interns: Amanda Franck, School of the Art Institute Chicago; Andrea Jaszlics, University of Colorado at Boulder; Madelinne Krenn, Truman College; Kathleen Lyons, Nazareth College; Marisa Stachowski, St. Olaf College; Mariam Usmani, DePaul University.

Trainees: Dr. Voahangy Soarimalala, University of Antananarivo, Madagascar; Cathy Stewart, Head of Conservation for the Royal Ontario Museum.

### **Steven M. Goodman**

Courses: “Biogéographie des animaux terrestres de Madagascar” (Graduate Student Seminar) et « Modèles de micro-endemism à Madagascar », Université d’Antananarivo; “Anatomie comparée” and “Biogéographie des animaux terrestres de Madagascar” (Graduate Student Seminars), Université de Mahajanga.

Graduate Students Advised: Ph.D. students, Université d’Antananarivo: Hery Rakotondravony, Julie Ranivo, Martin Raheriarisena, Zafimahery Rakotomalala, Fanja Ratrimomanarivo, and Félix Rakotondraparany, Juliana Rasoma, and Patricia Maminirina; Ph.D. students, Université de Toliara: Amyot Kofoky and Tsibara Mbohoahy; Ph.D. students, Stellenbosch University: Clément Gilbert; Ph.D. students, Université de La Réunion: Vincent Florens; Ph.D. students, University of Kwa-Zulu Natal: Leigh Richards, Thesine Naidoo, and Taryn Ralph; DEA students, Université d’Antananarivo—11 different students; DEA students, Université de Mahajanga—three different students; Master’s students, University of Kwa-Zulu Natal—four different students.

### **Shannon J. Hackett**

Postdoctoral Associates: Sushma Reddy.

Graduate Students Advised: Nicholas Block, Rebecca Dikow, Lucinda Lawson, Aaron Savit, Nate Smith, University of Chicago.

Undergraduate Interns: Adam Gordon, University of Chicago.

High School Interns: Shanice Davis and Taeisha Smith, Dunbar Vocational Career Academy, Chicago; Sonia Mercado, Chicago Military Academy, Chicago; Jessica Loza, Carver Military Academy, Chicago; Dylan Blanchard, Evanston Township High School; Jake Hays, Evanston Township High School.

Trainees: Daniel Jones, Biology teacher, University of Chicago, Laboratory Schools, Chicago; Kristin Peterson, Biology teacher, Hubbard High School, Chicago; Kerry Kline, Biology teacher, St. Patrick High School, Chicago.

Invited/Guest Lectures: Lecturer, Doctoral Dissertation Improvement Grants, University of Chicago graduate students; Guest lecturer, genomics class at University of Chicago.  
Other: Co-PI and Presenter, University of Chicago and Field Museum joint program in systems biology for high school students and high school teachers; Tour for NSF Research Experience for Undergraduate students from the Chicago Botanic Garden.

**Lawrence R. Heaney**

Graduate Students Advised: Sarah Weyandt, University of Chicago; member of graduate committees for 4 additional students, 1 at University of Chicago, 2 at University of Illinois at Chicago, 1 at University of Minnesota.

Traveling Scholars Advised: Tomokazu Kawashima, Japan; Mariano R. M. Duya and Melizar V. Duya, Conservation International—Philippines.

**Julian C. Kerbis Peterhans**

Graduate Students Advised: Prince Kaleme, Stellenbosch University, South Africa; Ogeto Mwebi University of Provence, France; Deo Tuyisingize, University of Capetown, South Africa; Melanie Jonas, Illinois State University.

Undergraduate Interns: Lindsay Jurgielewicz, University of Chicago; Brett Arends, Megan Kreft, Roosevelt University, Chicago; Faiza Aman, East-West University, Chicago.

Courses Taught: “Seminar in Natural Science,” Roosevelt University, Chicago.

Invited/Guest Lectures: Guest lecturer for Columbia College.

Other: Jury, Peterhans Prize, Illinois Institute of Technology, Course in Visual Training.

**Nicholas J. Lang**

Courses: Biology, Daley College, Chicago.

**Corrie S. Moreau**

Postdoctoral Associates: Stefanie Kautz.

Graduate Students Advised: Benjamin Rubin, University of Chicago.

Undergraduate Interns: Jenna-Marie Antonucci, Loyola University; Jessica De Smet, University of Illinois at Urbana-Champaign; Geneva Guinee, University of New England; Elizabeth Loehrer, Loyola University, Sara Zufan, DePaul University.

Trainees: Jesse Czekanski-Moir; Frank Azorsa.

Courses: “Reconstructing the Tree of Life,” undergraduate and graduate course, University of Chicago; Ant Course (field-based), Southwestern Research Station, Portal, AZ.

Invited/Guest Lectures: University of Illinois at Urbana-Champaign; Lecturer and tour, “History and Philosophy of Science,” Notre Dame University, IN; Lecturer and tour, Entomology class, Earlham College, IN.

Other: Workshop for Field Museum summer interns on applying and getting into graduate school.

**Alfred F. Newton**

Graduate Students Advised: David J. Clarke, University of Illinois at Chicago; Edilson Caron, Universidade Federal do Paraná, Brazil.

**Bruce D. Patterson**

Postdoctoral Associates: Carl W. Dick.

Graduate Students Advised: Alex Mwazo Gombe, Kenyatta University, Nairobi; Mohammad Abu Baker, Erika Arnold, Paúl Velazco, Natasha Godard, Crystal Guzman, University of Illinois at Chicago; Eric Hancock, Carrie Seltzer, University of Illinois at Chicago; Nate Upham, University of Chicago.

Undergraduate Interns Advised: Anna Sjodin, Loyola University, Chicago.

Courses: “Biogeography” University of Chicago.

International Trainee: Erika Paliza Garcia, La Molina, Lima, Peru.

**Petra Sierwald**

Postdoctoral Associates: Thomas Wesener.



Graduate Students Advised: Michael Jorgensen, University of Illinois at Chicago, João Paulo P. Pena Barbosa, Laboratório de Artrópodes, Sao Paulo, Brazil; Michael Brewer, Chad Lee Spruill, Lynn Angela Swafford, East Carolina University, North Carolina.

Undergraduate Interns: Ioulia Bepalova, Mount Holyoke College, South Hadley, MA; Eight REU interns.

Trainees: Peter Decker, Johannes-Gutenberg Universität, Mainz, Germany; Monica A. Farfan, Acarology Laboratory, The Ohio State University.

Courses: "From So Simple a Beginning: Evolution," University of Chicago.

### **W. Leo Smith**

Postdoctoral Associates: Nicholas Lang.

Graduate Students Advised: Rebecca Dikow, University of Chicago.

### **William T. Stanley**

Undergraduate Interns: Mary Wells, Northwestern University; Jaewook Song, Art Institute of Chicago; Shawna Bartnik, Roosevelt University.

Graduate Students: Karrie Lindee, Governor's State University, IL.

### **Margaret K. Thayer**

Graduate Students Advised: Dave J. Clarke, University of Illinois at Chicago.

Undergraduate Interns: Gracen Brilmyer, School of the Art Institute of Chicago; Kristin Kalita, Loyola University of Chicago.

### **Janet R. Voight**

Graduate Students Advised: Jessica Kurth, Rutgers University; Erin Grey, University of Chicago.

### **Harold K. Voris**

Graduate Students Advised: Chattapat Pongchareon, Kruewan Pipatsawasdikul, Chulalongkorn University, Thailand.

### **Jason D. Weckstein**

Undergraduate Interns: Swati Patel, Northwestern University; Joseph Cacioppo, Adam Gordon, Holly Lutz, University of Chicago; Matthew Wiese, Illinois Institute of Technology.

High School Interns: Ari Rice, Glenbrook North High School.

### **Mark W. Westneat**

Graduate Students Advised: Matt Friedman, Joanna Mandecki, Charlene McCord, University of Chicago; Scott Bradley, Krista Larson, DePaul University.

Undergraduate Interns: Jake Lasala, University of Chicago; Nicholas Lilly, Princeton University.

Courses: "Comparative Anatomy of the Vertebrates," undergraduate/graduate, University of Chicago.

Invited/Guest Lectures: "Research at the Field Museum," University of Chicago.

### **Thomas Wesener**

Graduate Students Advised: Peter Decker, Johannes-Gutenberg Universitaet, Mainz, Germany.

Undergraduate Interns: Ioulia Bepalova, Mount Holyoke College, South Hadley, MA.

### **David Willard**

Invited/Guest Lectures: Art Institute (2); College of St. Mary's; Columbia College; College of Lake County; Morton Arboretum Ornithology Class.

### **Philip Willink**

Graduate Students Advised: F. Alvarado Vasquez, Universidad Amazonica de Pando, Cobija, Bolivia.

## **BIODIVERSITY SYNTHESIS CENTER**

### **Audrey Aronowsky**

Undergraduate Intern: Marianna Tzeka, Columbia College, Chicago.

### **James Parham**

Undergraduate Interns: William Adams, Loyola University; Tyler Calway, University of Chicago.

### **Kristopher Urie**

Undergraduate Intern: Marianna Tzeka, Columbia College, Chicago.

### **Richard H. Ree**

Graduate Student Intern: Krista Larson, DePaul University, Chicago.

### **Jason Weckstein**

Undergraduate Interns: Holly Lutz, University of Chicago; Swati Patel, Northwestern University.

### **Mark W. Westneat**

Graduate Students Advised: Janelle Morano, Loyola University; Matt Friedman, Joanna Mandecki, Charlene McCord, University of Chicago; Steve Hanson, University of Illinois at Chicago.

## **PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

### **Kevin A. Feldheim**

Graduate Student Advised: Sheila Langosch, University of Illinois at Chicago.

Trainees: Susanne Plank, California State University, Long Beach; Jessica Loza, Carver Military Academy, Chicago; Sonia Mercado, Chicago Military Academy; Shanice Davis, Taeisha Smith, Dunbar Vocational Career Academy, Chicago; Joelle Mbatchou, DePaul University; Allison Condie, Thomas Wesener, Field Museum; Bethany Carboneau, Hanover College, IN; Kristin Peterson, Hubbard High School, Chicago; Austin Hicks, Marika Iszczyszyn, Elizabeth Loehrer, Loyola University; Melissa Bowman, Jacob Wenger, Manchester College; Gabrielle Lopez, Roosevelt College; Lynika Strozier, Truman College; Marie Jeanne Raherilalao, University of Antananarivo; Joe Cacioppo, Erin Loeding, Teofilo Reyes, University of Chicago; Daniel Jones, University of Chicago Laboratory Schools; Maria Pickering, University of Connecticut; Ian Klein, Tory De Martelly, University of Illinois at Chicago; Sarah Kristofik, University of Illinois at Urbana-Champaign.

### **Erin Sackett-Hermann**

Trainees: Gabrielle Lopez, Roosevelt College; Lynika Strozier, Truman College.

## TRAINING PROGRAMS, 2009

Each year members of The Field Museum's scientific staff of Collections & Research lead a wide spectrum of formal and hands-on training in collections-based research for high school, undergraduate and graduate students, and young professionals. Building on the Museum's core subject matter in evolutionary and environmental biology and anthropology/archaeology, these programs fulfill many functions: encouraging young students to consider careers in the sciences, providing the collections-based foundation for Ph.D. dissertations, and training early-career scientists from other countries to tackle environmental conservation issues at home. In local lecture halls, at international universities, in our DNA Lab, in our collections, and at far-flung field sites, the following is an overview of the diverse array of training programs led by the curators and professional staff of Collections & Research in 2009.

### HIGH SCHOOL AND UNDERGRADUATE INTERNSHIPS

#### **Field Museum Scholarship Committee Internships**

Each year The Field Museum supports summer internships for undergraduate students to work directly with scientists at The Field Museum on collections-based research projects. In 2009, the Scholarship Committee awarded eight students summer grants from our Research Experiences for Undergraduates (REU) program. **William Adams** (Loyola University, Chicago) worked with Assistant Curator Ken Angielczyk (Geology) and Postdoctoral Research Scientist Jim Parham (BioSynC) on the early evolution of sea turtles. **Ioulia Besspalova** (Mount Holyoke College) researched Giant Pill-Millipedes and Fire-Millipedes from Madagascar with Associate Curator Petra Sierwald and Postdoctoral Research Scientist Thomas Wesener (both Zoology/Insects). **Austin Hicks** (Loyola University, Chicago) studied color vision in nocturnal primates and bats with A Watson Armour III Curator Robert Martin (Anthropology) and Research Assistant Edna Davion (Anthropology). **Kristin Kalita** (Loyola University, Chicago) worked with Associate Curator Margaret Thayer (Zoology/Insects) on the biogeographical histories of a species of rove beetle, *Stenomalius helmsi*. **Elizabeth Loehrer** (Loyola University, Chicago) worked with Assistant Curator Corrie Moreau (Zoology/Insects) studying ants of the rainforests of South America. **Gabrielle Lopez** (Roosevelt University, Chicago) conducted research on species recognition in tropical lichen-forming fungi with Associate Curator Thorsten Lumbsch (Botany). **Bryan Quach** (Loyola University, Chicago) worked with Associate Curator Scott Lidgard (Geology) on using the internet to analyze bryozoan biodiversity. **Anna Sjodin** (Loyola University, Chicago) worked with MacArthur Curator Bruce Patterson (Zoology/Mammals) and Postdoctoral Research Scientist Carl Dick (Zoology/Mammals & Insects) studying the coevolution of bats and bat flies.

#### **Boone Scholars Internships for East Asian Studies**

Supported by a bequest from the late Commander Gilbert E. Boone and his wife Katharine Phelps Boone, the Boone Scholars Internships for East Asian Studies allow highly qualified undergraduates the opportunity to study at The Field Museum and research Anthropology collections from Japan, Korea, China, and elsewhere in the eastern part of Asia. The 2009 intern, **Jennifer Wong** from Northwestern University, conducted research on the Chinese rubbings that were selected for the 2010 exhibition in the Brooker Gallery. She consulted published works on the rubbings from China and North America and compiled a database that the team is consulting to prepare the exhibition labels.

#### **Anthropology Alliance Interns**

Now in its ninth year, this program, launched by the Anthropology Department's auxiliary "friends" group, supports undergraduate involvement in anthropology research, including direct salary for Museum-based undergraduate collection management interns, and travel expenses for interns assisting in archaeological or ethnographic field work. In 2009 there were four fieldwork and two collections interns supported by the Anthropology Alliance. **Joshua Torres** of University of Florida spent part of the summer conducting archaeological research into the prehistoric ceremonial center of Tibes in Puerto Rico with Antonio Curet. **John Hicks**, University of Illinois at Chicago, was in Peru with Donna Nash and Ryan Williams at the site of Cerro Mejia. **Lacey Carpenter**, Northwestern University, joined Gary Feinman and Linda Nicholas for their archaeological field season at the site of El Palmillo, Oaxaca. **Carla Klehm**, University of Texas,

worked with Chap Kusimba in western Kenya. **Aurora Lang**, University of Leicester, and **Joanna Grabski**, Jagiellonian University, Krakow, Poland, worked as collection management interns, learning formal museum methods of cataloguing, archival research, and collections care.

## **GRADUATE PROGRAMS**

### **University of Chicago – Committee on Evolutionary Biology (CEB)**

This Ph.D. program within Biological Sciences at the University of Chicago—a collaboration among the University, The Field Museum, Brookfield Zoo, Lincoln Park Zoo, and Argonne National Lab—has been training students in evolutionary biology for more than 35 years. Twenty-one Field Museum scientists are involved in CEB, comprising more a third of its faculty and supervising more than half of the program's Ph.D. candidates. Shannon Hackett (Zoology/Birds) serves as Associate Chair of CEB. Field Museum curators currently serve as primary dissertation advisors for 10 CEB students (out of 25 total). 2009 marked the fourth year of support from a highly competitive Department of Education grant to enhance the training of gradate students in evolutionary biology and conservation science.

### **University of Chicago – Organismal Biology and Anatomy (OBA)**

Mark Westneat, Curator of Fishes, is adjunct faculty in OBA, where he teaches “Comparative Vertebrate Anatomy” every year. Dr. Westneat is currently supervising two OBA dissertations, bringing to five the number of OBA students for whom he has served as major advisor; he has also served on seven other OBA dissertation committees.

### **University of Illinois at Chicago/Field Museum Anthropology Ph.D. Program**

This program was established in 1995 in order to strengthen anthropology course offerings at UIC and enable the university to grant the Ph.D. in Anthropology, as well as to facilitate access by UIC faculty and students to Field Museum collections. Besides teaching on a regular basis at UIC, all of The Field Museum's anthropology curators are adjunct professors and members of the UIC graduate faculty, chairing Ph.D. committees—Field Museum curators collectively chaired four doctoral committees in 2009—as well as serving on admissions committees, and on search and promotion committees for teaching and faculty positions. There are currently 50 Ph.D. students in the program, and FM curators work with more than half of them in some capacity (as dissertation committee members, intern supervisors, or informal advisors for first-year students). One UIC graduate student held a Field Museum fellowship supporting his research in 2009.

### **Northwestern University/Field Museum Program in Anthropology**

Formalized in Fall 2001, this program consolidated an emerging relationship between the Anthropology programs at the Museum and Northwestern. Eight Field Museum anthropology curators have adjunct professor status at Northwestern, and engage in regular teaching duties that are part of the Northwestern University course offerings, and select NU anthropologists have adjunct curator status at the Field. Currently Associate Curator Ryan Williams is co-chairing one Ph.D. dissertation committee in the program.

### **University of Illinois at Chicago – Ecology and Evolution Program**

This graduate-degree granting program within the Department of Biological Sciences at the University of Illinois at Chicago is a collaboration of the department's eight organismal biologists with nine curators at The Field Museum, as well as scientists from the Brookfield Zoo, the Morton Arboretum and other area institutions. The collaboration grew out of joint interest in training international colleagues, and the program has hosted three MacArthur-sponsored programs for training in tropical conservation, as well as several NSF-funded programs in Botany and Zoology. Ten students based in the Museum's Department of Zoology and four in Botany pursued their graduate studies under this program in 2009. Curators Bruce Patterson (Zoology) and Scott Lidgard (Geology) serve as institutional liaisons.

### **Resident Graduate Students**

As the “Higher Education” section of this report demonstrates, graduate student advising, dissertation supervision, and university teaching are central to the academic mission of Collections & Research.

Among the many doctoral students mentored by Field Museum curators is a core group of students whose work is squarely based in the Museum's collections and labs—our Resident Graduate Students. The students not only have curators on their dissertation committees, but also office space at the Museum, access to its facilities, and many of the same privileges as staff. In 2009 The Field Museum provided training in collections-based research to 67 Resident Students from the University of Chicago, the University of Illinois at Chicago, and Northwestern University, as well as other universities in the Chicago region and beyond (see “Resident Graduate Students” section for details).

## **FIELD-BASED TRAINING FOR HIGH SCHOOL AND UNDERGRADUATES**

### **Budding Archeologists Field School**

2009 marked the fourth year of this partnership with Lorenzo R. Smith School in Hopkins Park, Illinois. Led by Curator Chap Kusimba and Head of Collections Scott Demel (both Anthropology) the program combines classroom-based science instruction and hands-on experience in an archeological excavation focusing on an African-American settlement dating back to the Reconstruction era. The 7<sup>th</sup> and 8<sup>th</sup> grade students are involved in every aspect of the archaeological excavation, including mapping, surveying, and digging. This year's program included instruction in the fauna and the ecosystem of the Hopkins Park region and laboratory analysis at Lorenzo Smith School. The Budding Archeologists program is supported by the Pembroke School District, the Service Corps of Retired Executives (SCORE), and the No Child Left Behind Act, and won honorable mention in the *American School Board Journal's* 2007 Magna Awards.

### **Stones and Bones: A Course in Paleontological Research and Field Work**

For the past five summers Lance Grande (Senior Vice President and Head of Collections and Research) has taught a field course to a small group of advanced placement high school and undergraduate college students. The four-week course is run through the University of Chicago and The Field Museum and covers paleontological theory, method and practice, and includes an introduction to paleontology at the Museum, two weeks of hands-on field work in the mountain desert near Kemmerer, Wyoming, and a wrap-up week at the Museum focusing on preparation, study and analysis of the collected material. In 2009, seven students participated in the program.

### **Contisuyo Field School**

This Field Museum-UIC program introduces undergraduates to archaeological excavation and laboratory analysis techniques, as well as museum collection and exhibit development, design, and production, at two sites in southern Peru. The primary archaeological field site is a mountaintop Wari city (600–1000 AD) and the ethnographic field site are villages in the highland valley of Carumas. The field schools operate in conjunction with the Contisuyo Museum in the southern department of Moquegua. The program is led by Associate Curator Ryan Williams and Adjunct Curator Donna Nash (both Anthropology), plus faculty from the University of Florida and the Contisuyo Museum. Now in its fourth year, the program hosted seven undergraduate students in 2009, all from UIC.

### **Proyecto Arqueologico Norte Chico**

Directed by MacArthur Curator Jonathan Haas of Anthropology and Dr. Winifred Creamer, Adjunct Curator and Presidential Research Professor at Northern Illinois University, this project investigates the origins of Andean civilization in coastal Peru. The program has involved more than a dozen University of Illinois at Chicago graduate and undergraduate students since 1999, and has provided seven full fellowships to UIC graduate students since 2003. Two UIC Ph.D. students are currently doing dissertations drawing on research conducted as part of this project. In addition, one graduate student at Northern Illinois University completed her Master's theses on a PANC projects during 2009, and two NIU students are currently working on Master's theses. Three Peruvian project members received their Licenciatura degrees from the University Mayor de San Marcos, in Lima.

### **Archaeology and Ethnography Field School in Kenya**

Curator Chap Kusimba (Anthropology) and Adjunct Curator Sibel Kusimba (Anthropology and Northern Illinois University) lead a summer archaeology field school in Kenya each year, with colleagues from the



University of Nairobi, Kenya. The school is offered as a for-credit course through Northern Illinois University, and is supported by an NSF Research Experiences for Undergraduates grant. The students learn about archaeology, ethnoarchaeology, and the prehistory of East Africa through lectures, site visits, and participation in anthropological fieldwork. Participants in 2009 included students from College of William and Mary, Pwani University, and University of Nairobi, as well as two students from Perspectives High School. Funding was provided by Ernst and Young.

## **INTERNATIONAL TRAINING AND CAPACITY-BUILDING**

### **Vahatra and advancement of Malagasy conservation biologists**

From 1993 to 2007 Steve Goodman (Field Biologist, Dept. of Zoology) led a joint The Field Museum-World Wildlife Fund (WWF) “Ecology Training Program” (ETP) in the biological sciences for Malagasy graduate students. More than 360 Malagasy students have participated in field schools, and the program has yielded more than 550 scientific publications. Around 90 Malagasy students earned advanced degrees within the national university system in the fields of zoology and conservation biology, and many ETP graduates have gone on to important posts in the non-government and government sectors on Madagascar and are advancing conservation programs there. As part of the natural evolution of the ETP, a Malagasy-run NGO, known as Vahatra, was created in 2007. This new NGO is run by former students of the ETP that have are now internationally known field biologists in their own right. Dr. Goodman is the Scientific Advisor for Vahatra, and serves as the primary advisor or a committee member for numerous students preparing Master’s or Ph.D. degrees at the universities of Antananarivo, Mahajanga, Toliara (Madagascar); KwaZulu Natal (South Africa), Geneva (Switzerland), and Paris (France). He recently published a book entitled *Paysage naturels et biodiversité de Madagascar* of which 3,200 copies were purchased by the French Government and sent for free distribution to Madagascar, having a profound pedagogic impact on national students and scientists.

### **Training Programs in Latin American Lichenology and Mycology**

Lichens are key indicators of environmental health and sources for pharmaceutically active compounds, but still are a poorly-known group. Collections Manager and Adjunct Curator Robert Lücking (Botany) has conducted ongoing training programs for Latin American Lichenology and Mycology students and professionals since 2002, including courses at Universidad de Costa Rica, Universidad Peruana Cayetano Heredia in Lima, Peru, and Las Cruces Biological Station in Costa Rica (sponsored by the Organization for Tropical Studies). In 2007 Dr. Lücking launched an NSF-funded project that supports lichen workshops in 12 Latin American countries through 2011, covering tropical lichenology, quantitative field sampling methods, and multivariate analysis of community data. As part of this program, in 2009 he conducted workshops in Florida, El Salvador, Nicaragua, Panama, Peru, Bolivia, Brazil, and Argentina, training some 150 students and early-career scientists, as well as amateur lichenologists. In the course of this project, this year four local student theses at the bachelor, master, and Ph.D. level were finished in Colombia and Brazil.

### **East Asian Lichenology and Mycology**

Associate Curator and Chair Thorsten Lumbsch (Botany) has had an active training program for students interested in Lichenology and Mycology in East Asia since 2006. He is currently advising two Ph.D. students in Thailand and collaborating with two working groups. In 2009 Dr. Lumbsch spent two weeks in January working with the two students in the field in the Chaing Mei region in northern Thailand, and one of the students came to the Museum for two months of research.

### **Mammalian Biodiversity in the Philippines**

For more than 25 years Curator Larry Heaney (Zoology/Mammals) has been training Filipino scientists on the documentation and conservation of vertebrate biodiversity in the Philippines—home to one of most unique and severely threatened biodiversity hotspots on earth. With funding from the Museum, the National Science Foundation, and the MacArthur Foundation, Dr. Heaney has trained more than 75 young Filipino university biologists, park managers, and government officials, and has conducted many workshops and intensive courses at University of the Philippines—Los Banos and University of the Philippines main campus (Diliman). In 2009, Larry’s project provided training in field techniques

to one park ranger and three members of local governments (in the Philippines), and advanced training in biodiversity research to two biologists from Conservation International-Philippines (at The Field Museum).

## **COLLECTIONS- AND LAB-BASED TRAINING AT THE FIELD MUSEUM**

### **NSF PEET projects**

The PEET program (Partnerships for the Enhancement of Expertise in Taxonomy), the National Science Foundation's response to ever-shrinking expertise in "whole organism" biology, makes major grants to support intensive studies of "under-studied" organisms, with training a major component of each project. Projects provide comprehensive training in collections-based, monographic studies for postdoctoral associates, graduate students, and undergraduate interns. The Field Museum had three PEET grants underway in 2009:

- Margaret Thayer (Zoology): "Monography, Phylogeny, and Historical Biogeography of Austral Staphylinidae (Coleoptera)."
- Sabine Huhndorf (Botany): "Monographs of Two Key Genera and Family-Level Phylogeny (Fungi, Ascomycetes, Sordariales)." (This is the second PEET grant held by this investigator.)
- Petra Sierwald (Zoology): "The Diplopoda: Research, Taxonomic Training and Computerization."

### **Training in Molecular Analysis Techniques**

The Pritzker Laboratory for Molecular Systematics and Evolution is a multi-user Field Museum facility dedicated to the collection and analysis of genetic data on the evolutionary relationships among species. Lab Manager Kevin Feldheim conducts training for new users in all phases of the data collection process, from DNA extraction to sequencing to analysis of the resulting data. During 2009 Dr. Feldheim trained 39 new users, ranging from high school interns to Ph.D. students to international scientists, including visitors from Germany, Thailand, Madagascar, and England. Study topics included sand tiger sharks, tropical birds, lichens, mushrooms, cavefish, ants, plants and southeast Asian snakes.

## **INTERNS, 2009**

### **HIGH SCHOOL INTERNS**

#### **Pritzker Laboratory for Molecular Systematics and Evolution**

Shanice Davis, Dunbar Vocational Career Academy; Taeisha Smith, Dunbar Vocational Career Academy; Jessica Loza, Military Academy; Sonia Mercado, Chicago Military Academy

### **UNDERGRADUATE STUDENT INTERNS**

#### **Department of Botany**

Stephen Battersby, Harold Washington College; Erin R. Ewald, University of Chicago; Matthew F. Hart, University of Chicago; Emine Kochakova, Oakton Community College; Gabrielle Lopez, Roosevelt University; Nina F. Noah, University of Chicago; Miguel Rojas, DePaul University; Lynika Strozier, Dominican University; Brian Wray, Northeastern Illinois University

#### **Department of Geology**

William Adams, Loyola University, Chicago, IL; TracyAnn N. Champagne, University of Iowa.

#### **Department of Zoology**

Faiza Aman, East-West University; Brett Arends, Roosevelt University; Shawna Bartnik, Roosevelt University; Brooke Bauer, East-West University; Ioulia Bessalova, Mt. Holyoke College; Joe Cacioppo, University of Chicago; Bethany Carboneau, Hanover College; Caroline Carlsmith, School of The Art Institute Chicago; Carlyn Crispell, School of The Art Institute Chicago; Vincent FitzPatrick, Northwestern University; Amanda Franck, School of the Art Institute Chicago; Adam Gordon, University of Chicago; Geneva Guinee, University of New England; Rebeka Jacobson, Roosevelt University; Esmeralda Hernandez, East-West University; Justine Hirten, School of The Art Institute Chicago; Andrea Jaszlics, University of Colorado at Boulder; Hannah Joy-Warren, University of Chicago; Lindsay Jurgielewicz, University of Chicago; Kristin Kalita, Loyola University; Megan Kreft, Roosevelt University; Madelinne Krenn, Truman College; Jessica Kurth, Rutgers University; Danielle Lee, East-West University; Elizabeth Loehrer, Loyola University; Holly Lutz, University of Chicago; Kathleen Lyons, Nazareth College; Andria Niedzielski, School of The Art Institute Chicago; Funso Oke, East West University; Swati Patel, Northwestern University; Max Shepard, School of The Art Institute Chicago; Anna Sjodin, Loyola University; Jaewook Song, School of The Art Institute Chicago; Marisa Stachowski, St. Olaf College; Patti Stell, School of The Art Institute Chicago; Patricia Sullivan, Roosevelt University; Lee Swanson, Roosevelt University; Lauren Titlebaum, DePaul University; Mariam Usmani, DePaul University; Matthew Weise, Illinois Institute of Technology; Mary Wells, Northwestern University; Ronald Williams, East-West University; Sara Zufan, DePaul University.

#### **Pritzker Laboratory for Molecular Systematics and Evolution**

Jacob Wenger, Manchester College; Sarah Kristofik, University of Illinois, Champaign-Urbana; Melissa Bowman, Manchester College

### **GRADUATE STUDENT INTERNS**

#### **Department of Botany**

Elizabeth K. Karczynski, Northern Illinois University

#### **Department of Geology**

Katherine Bevington, Cooperstown Graduate Program, Cooperstown, NY.

#### **Pritzker Laboratory for Molecular Systematics and Evolution**

Maria Pickering, University of Connecticut; Susanne Plank, California State University, Long Beach;  
Teofilo Reyes, University of Chicago; Erin Loeding, University of Chicago

## **RESIDENT GRADUATE STUDENTS, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

Northern Illinois University  
Ryan Szymanski

University of Chicago  
Edna Davion

University of Illinois at Chicago  
Emily Baca, Rebecca Caldaroni, Gabriel Cantarutti,  
Sofia Chacaltana, Rebecca Deeb, Rory Denison,  
Mark Golitko, John Hicks, Caleb Kestle, James  
Meierhoff, Lisa Niziolek, William Pestle, Matthew  
Piscitelli, Danielle Riebe, Nicola Sharratt, Jennifer  
Starbird

### **DEPARTMENT OF BOTANY**

University of Illinois at Chicago  
George Mugambi, Eimy Rivas-Plata, Jacqueline  
Van De Veire, Todd Widhelm

University of Chicago  
Sara Branco, Deren Eaton, Michael Fitzsimons,  
Kelly Gravier, Matthew Nelsen

### **DEPARTMENT OF GEOLOGY**

Northwestern University  
Richard Barclay

University of Chicago  
Hilary Christensen, Christian Kammerer, Brandon  
Kilbourne, Rudyard Sadleir, Nate Smith

### **DEPARTMENT OF ZOOLOGY**

Boston University  
Heather Shull

Charles Stuart University  
Raoul Davion

Loyola University  
Janelle Morano

Northwestern University  
Steve Hanson, Jillian Henss, Margaret Siple

University of Chicago  
Nicholas Block, Rebecca Budinoff, Rebecca Dikow,  
Andy Dosman, Matthew Friedman, Nicholas  
Johnson, Lucinda Lawson, Joanna Mandecki,  
Charlene McCord, Aaron Rice, Ben Rubin, Aaron  
Savit, Rebecca Terry, Dean Thorsen, Nathan  
Upham, Sarah Weyandt, Ben Winger

University of Illinois at Chicago  
Erika Arnold, Mohammed Abu Baker, Isabel  
Caballero, David J. Clarke, Malu Jorge, Michael  
Jorgensen, Emi Kuroiwa, Carrie Seltzer, Paul M.  
Velazco, John Wilk

## **VOLUNTEERS, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

Kara Bantz, Jenna Beletic, Janice Bell, C. Thomas Brockmann, Kristin Buskirk, Anjaneen Campbell, Lacey Carpenter, Meira Chefitz, Magdalyne Christakis, Emma Clark, Connie Crane, Gabriele Da Silva, Victoria Drake, Lauren Fahey, Stephen Feinman, Linna Gao, Peter Gayford, William Goldman, Michael Gordon, Elizabeth Haake, Brandon Keehner, Devon Krizan, Laurene Lambertino-Urquizo, Hilary Leathem, Leonore Levit, Renee Logan, Diane Luhmann, Jack MacDonald, Eva Mannaberg, Victoria de Martely, Dorren Martin-Ross, Sabina Matachowska, Robert McFarland, Josephina Meleico, Joanna Minderop, Alicia Ortiz, Velia Peterson, Jennifer Phelps, Sarah Pickman, Kathleen Ratteree, Rosalind Roser, Maura Ross, Christine Salvator, Anastasia Schaefer, Esther Schechter, Barbara Schwartz, Becky Seifried, Monica Sentoff, Stephen Sentoff, Twisha Shah, John Shea, Jie Shi, Tamara Siuda, Beth Spencer, Felice Sperone, Lisa Stringer, Hsi-tsin Tsiang, Mary Vermillion, Jean Vondriska, Jeremy Walker, Anna Weiss, William Whitehead, Edward Yastrow.

### **DEPARTMENT OF BOTANY**

Stephen Battersby (Flowering Plants), Zorica Dabich (Bryology), Karen Engel (Bryology), Richard Hyerczyk (Lichenology), Nancy Klaud (Scientific Illustration/Vascular Plants), Alice Piller (Mycology), Walter Reising (Data preparation/Digital imaging), Richard Sabel (Mycology), Klara Scharnagl (Mycology), Leon Shernoff (Mycology), Raphael Stern (Lichenology), Lee Swanson (Mycology).

### **DEPARTMENT OF GEOLOGY**

William D. Adams (Vertebrate Paleontology), Janice Beck (Vertebrate Paleontology), Irene Broede (Vertebrate Paleontology), Robin Canavan (Vertebrate Paleontology), Steven R. Clawson (Vertebrate Paleontology), Mary Sue Coates (Physical Geology), Larry Coronelli (Paleobotany), Cary Easterday (Invertebrate Paleontology), Mike Eklund (Vertebrate Paleontology), Erin Fitzgerald (Vertebrate Paleontology), Stephen Gieser (Vertebrate Paleontology), Tom Kerstann (Vertebrate Paleontology), Dennis Kinzig (Vertebrate Paleontology), Joanne Kluga (Vertebrate Paleontology), Devin Leigh (Vertebrate Paleontology), Carolyn Leavitt (Vertebrate Paleontology), John McConnell (Invertebrate Paleontology and Paleobotany), Elisabeth Meeker (Vertebrate Paleontology), Brian Morrill (Vertebrate Paleontology), Karen Nordquist (Vertebrate Paleontology), Clarita Nuñez (Physical Geology), Catherine Pries (Invertebrate Paleontology), Bob Rosenberg (Vertebrate Paleontology), Anne-Elizabeth Stone (Physical Geology), Hedy Turnbull (Vertebrate Paleontology), Warren Valsa (Vertebrate Paleontology), Karen Vendl (Physical Geology), Mark Vendl (Physical Geology), Aki Watanabe (Vertebrate Paleontology), Rebecca Williams (Vertebrate Paleontology), Jack Wittry (Paleobotany and Invertebrate Paleontology), Kurt Zahnle (Vertebrate Paleontology), Elaine Zeiger (Paleobotany), Steven Zitowsky (Vertebrate Paleontology).

### **DEPARTMENT OF ZOOLOGY**

Lily Alvey (Invertebrates), Bob Andrini (Birds), Paul Baker (Birds), Tom Beauvais (Amphibians and Reptiles), Nancy Bigelow (Insects), Richard Bloomfield (Insects), Helen C. Bonbrest (Invertebrates), Gracen Brilmyer (Insects), Joan Bruchman (Birds), Casey Buchanan (Birds), Renee Buecker (Insects), Peter Buol (Birds), Drew Carhart (Insects), Lucy Chang (Mammals), Jessica De Smet (Insects), Jameson Dood (Mammals), Stanley Dvorak (Invertebrates), Marion Dunn (Fishes), Alison Ebert (Mammals), Ralph Eiseman (Birds), Josh Engel (Birds), Amanda Franck (Insects), Glenn Gabanski (Birds), Paul Gitau (Birds), Dr. Arlene Ghiron (Insects), Joan Goldstein (Fishes), Paula Gonzalez (Mammals), Richard Guzik (Invertebrates), Marcelle Hon (Mammals), Joanna Hosteny (Birds), Jeff Hoswell (Fishes), Lisa Hung (Insects), Herbert Hymen (Birds), Elzbieta Irla (Fishes), Edwin Kapus (Invertebrates), Dr. James P. Kase



(Insects), Arlene Koziol (Birds), Madelinne Krenn (Insects), Lynn Langton (Birds), Thomas Lesh (Invertebrates), Teresa Mayfield (Amphibians and Reptiles), Kasey Mennie (Birds), Jennifer Michaud (Insects), Susan Okey (Insects), Sylvana Peneff (Birds), Patricia Perozo (Fishes), Roger Reason (Amphibians and Reptiles), Sheila Reynolds (Mammals), Alexandra Rose (Invertebrates), Justin Schiro (Birds), Meera Sethi (Birds), Twisha Shah-Brandenburg (Insects), Elizabeth Simmons (Insects), Terri Sinnott (Fishes), Dave Strecker (Insects), Diana Sudyka (Birds), Sandra Van Tilburg (Birds), Christine Vittoe (Invertebrates), David Walker (Invertebrates), Jonathan Warnock (Invertebrates), Alexandra Westrich (Insects), Joseph Zich (Invertebrates).

## **PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

Eileen Feldheim.

## **HONORARY APPOINTMENTS, 2009**

### **DEPARTMENT OF ANTHROPOLOGY**

#### **Curator Emeritus**

Phillip Lewis, Ph.D., Primitive Art, Melanesian Ethnology  
Bennet Bronson, Ph.D., Asian Archaeology and Ethnology

#### **Adjunct Curators**

Brian Bauer, Ph.D., Andean Archaeology  
Deborah Bekken, Ph.D., East Asian Archaeology and Zooarchaeology  
James A. Brown, Ph.D., North American Archaeology  
Elizabeth Brumfiel, Ph.D., Mesoamerican Archaeology  
Winifred Creamer, Ph.D., Archaeology of the Americans  
Scott Demel, Ph.D., North American and Historical Archaeology  
Timothy Earle, Ph.D., Archaeology of Complex Societies  
Robert L. Hall, Ph.D., Plains and Midwestern Archaeology and Ethnography  
Chuimei Ho, Ph.D., East and Southeast Asian Art and Archaeology  
Paul Hockings, Ph.D., Southern Asia Social Anthropology  
Katherine Hoffman, Ph.D., Linguistic and Sociocultural Anthropology  
Laura Junker, Ph.D., Complex Societies, Maritime Trade, and Ceramic Production  
Lawrence H. Keeley, Ph.D., Europe and North American Paleolithic Archaeology  
Waud Kracke, Ph.D., Social Anthropology, Psychoanalysis, Dreams  
Sibel Barut Kusimba, Ph.D., African Archaeology  
Christopher W. Kuzawa, Ph.D., Health, Human Growth and Development  
William Leonard, Ph.D., Biological Anthropology  
Mark Lietchty, Ph.D., Anthropology and History  
Thomas McDade, Ph.D., Human Biology  
John Monaghan, Ph.D., Anthropology and History, Religion  
Donna Nash, Ph.D., Andean Archaeology  
Linda Nicholas, M.A., Mesoamerican Archaeology  
Joel Palka, Ph.D., Mesoamerican Archaeology  
James L. Phillips, Ph.D., Old World Prehistory, Stone Tools  
Jack H. Prost, Ph.D., Physical Anthropology and Primate Behavior  
David Reese, Ph.D., Archaeozoology  
Cynthia Robin, Ph.D., Archaeology, Social Organization  
Helen B. Schwartzman, Ph.D., Psychological Anthropology  
Sylvia Vatuk, Ph.D., Cultural, Gender, and Urban Anthropology, India  
Mary J. Weismantel, Ph.D., Cultural Anthropology, Food, Adoption  
Robert L. Welsch, Ph.D., Oceania  
Sloan Williams, Ph.D., South American Bioarchaeology

#### **Research Associates**

Kathleen Adams, Ph.D., Sociology  
Janice Alcorn, Ph.D., Ecology  
Dean E. Arnold, Ph.D., Mesoamerican and South American Archaeology and Ethnology  
Philip J. Arnold, III, Ph.D., Mesoamerican Archaeology, Craft Production and Ethnoarchaeology  
Elizabeth Babcock, Ph.D., Cultural Anthropology  
Robert C. Bailey, Ph.D., Biological Anthropology, Africa  
Jane Eva Baxter, Ph.D., Historical Archaeology  
Richard Blanton, Ph.D., Mesoamerican Archaeology  
Deborah Blom, Ph.D., Andean Bioarchaeology  
Jane E. Buikstra, Ph.D., Skeletal Biology, Paleopathology, Paleodemography, Forensic Anthropology  
Raymond G. Coderington, Ph.D., Urban Cultural Anthropology  
William J. Conklin, Ph.D., Peruvian Anthropology

Nicole Couture, Ph.D., Latin America  
 Phillip J. C. Dark, Ph.D., African Ethnology  
 Shannon Dawdy, Ph.D., American South and Caribbean, Creole Cultures  
 Robert Feldman, Ph.D., Andean Archaeology  
 Kathleen Forgey, Ph. D., Andean Archaeology  
 David Goldstein Ph. D., South American Anthropology  
 Anne. L. Grauer, Ph.D., Physical Anthropology, Skeletal Biology, North America  
 Mark Hauser, Ph. D., Historical Archaeology and Archaeology of African Diasporas  
 Augustin Ferdinand Charles Holl, Ph.D., West African Prehistory, African-American Archaeology  
 F. Clark Howell, Ph.D., Old World Prehistory  
 John Janusek, Ph.D., Andean Archaeology  
 Carolyn Schiller Johnson, Ph.D., Ethnomusicology  
 Janet H. Johnson, Ph.D., Near Eastern Archaeology  
 James Ketelaar, Ph.D., East Asian History  
 Purity W. Kiura, Ph. D., African Archaeology  
 Alan L. Kolata, Ph.D., Andean Archaeology and Ethnohistory  
 Lyle Konigsberg, Ph.D., Physical Anthropology  
 David Kuehn, Ph.D., Geoarchaeology  
 Dr. Sharon Lewis Peniston, Ph.D., Urban anthropology, Kinship structures, U.S. and Caribbean  
 Elizabeth Ann Lillehoj, Ph.D., Japan, Material Culture  
 Laura Litten, Ph.D., Visual Anthropology  
 Maria C. Lozada, Ph.D., Peruvian Archaeology  
 Edward F. Maher, Ph. D., Ancient Eastern Mediterranean, Zooarchaeology  
 Maxine E. McBrinn, Ph. D., Southwestern Archaeology  
 Donald E. McVicker, Ph.D., Mesoamerican Archaeology  
 Michael E. Moseley, Ph.D., South American Archaeology  
 Katherine Nelson, Ph.D., American Southwest Archaeology  
 Nancy Parezo, Ph.D., American Indian Studies  
 Nadine Ruth Peacock, Ph.D., Biological Anthropology, Africa  
 Chantal Radimilahy, Ph. D., Gender and Environmental Archaeology, Madagascar  
 Esther Schechter, Ph.D., New Guinea Research Program  
 Fred H. Smith, Ph.D., Physical Anthropology  
 Costas Spirou, Ph.D., Urban Anthropology and Sociology  
 Charles Stanish, Ph.D., Andean Anthropology  
 Gil J. Stein, Ph.D., Near Eastern Archaeology  
 Ann L.W. Stodder, Ph.D., Bioarchaeology, Oceania  
 Emily Stovel, Ph.D., Andean Anthropology  
 Hans Thomsen, Ph.D., East Asian Art and Archaeology  
 Nikolaas Johannes Van der Merwe, Ph.D., African Archaeology and Metallurgy  
 Kevin Vaughn, Ph. D., Andean Anthropology  
 Ronald Weber, Ph.D., Amazon Basin and Northwest Coast Archaeology and Ethnology  
 Donald Whitcomb, Ph.D., Egyptian Prehistory  
 William Whitehead, Ph.D., Andean Anthropology

### **Associates**

Connie Crane, A.B., North American Ethnology  
 Peter Gayford, B.A., African Archaeology and Ethnology  
 Jack M. MacDonald, M.S., Oceania  
 Carolyn Moore, B.A., Asian Material Culture  
 Claire Odland, M.A., African and South American Textiles  
 Lisa Stringer, M.A., Archaeology  
 Edward Yastrow, B.A., Human Origins

## **DEPARTMENT OF BOTANY**

### **Curator Emeritus**

William Burger, Ph.D., Vascular Plants  
Michael O. Dillon, Ph.D., Vascular Plants  
John J. Engel, Ph.D., Bryology

### **Adjunct Curators**

William A. Alverson, Ph.D., Vascular Plants  
Peter G. Avis, Ph.D., Mycology  
Eve Emshwiller, Ph.D., Ethnobotany  
Robin B. Foster, Ph.D., Vascular Plants  
Patrick Leacock, Ph.D., Mycology  
Robert Lücking, Ph.D., Lichenology  
Gary L. Smith Merrill, Ph.D., Bryology  
Matt von Konrat, Ph.D., Bryology/Pteridophytes

### **Visiting Curator**

Fred R. Barrie, Ph.D., Vascular Plants

### **Research Associates**

Carrie J. Andrew, Ph.D., Mycology  
Peter Avis, Ph.D., Mycology  
John E. Braggins, Ph.D., Bryophytes  
Julieta Carranza, Ph.D., Mycology  
Ana Crespo, Ph.D., Lichenology  
Fernando A. Fernandez, Ph.D., Mycology  
Jesús García Jiménez, Biol., Mycology  
David Glenny, Ph.D., Bryology  
Nancy Garwood, Ph.D., Vascular Plants  
Sidney F. Glassman, Ph.D., Vascular Plants  
David S. Glenny, Ph.D., Bryology  
Luis D. Gómez, Ph.D., Mycology  
Alfredo Gomez-Beloz, Ph.D., Vascular Plants  
Jorgé Gómez Laurito, B.S., Vascular Plants  
James G. Graham, Ph.D., Vascular Plants  
J. Kelly Gravier, Ph.D., Mycology  
Nancy Hensold, Ph.D., Vascular Plants  
Patrick Herendeen, Ph.D., Vascular Plants  
Andrew Hipp, Ph.D., Vascular Plants  
Sara Hoot, Ph.D., Vascular Plants  
Michael Huft, Ph.D., Vascular Plants  
Boris Igic, Ph.D., Vascular Plants  
Wei Jiang-Chun, Ph.D., Mycology  
Marian R. Kadushin, Ph.D., Vascular Plants  
Kuswata Kartawinata, Ph.D., Vascular Plants  
Thomas G. Lammers, Ph.D., Vascular Plants  
Segundo Leiva González, Ph.D., Vascular Plants  
David Lentz, Ph.D., Vascular Plants  
Blanca Leon, Ph.D., Pteridology  
David P. Lewis, M.S., Mycology  
Richard A. Lupia, Ph.D., Paleobotany  
John F. Lussenhop, Ph.D., Mycology  
James Luteyn, Ph.D., Vascular Plants  
François M. Lutzoni, Ph.D., Lichenology  
María de Milagro Mata Hidalgo, Mycology

Susana A. Magallón-Puebla, Ph.D., Paleobotany  
Roberta Mason-Gamer, Ph.D., Vascular Plants  
Rogers McVaugh, Ph.D., Vascular Plants  
Andrew Miller, Ph.D., Mycology  
Gregory M. Mueller, Ph.D., Mycology  
Michael Nee, Ph.D., Vascular Plants  
Cirilo Nelson, Ph.D., Vascular Plants  
Lorin I. Nevling, Jr., Ph.D., Vascular Plants  
Khwanruan Papong, Ph.D., Lichenology  
Patricio P. Ponce de Leon, Ph.D., Mycology  
Kathleen Pryer, Ph.D., Pteridology  
Victor Quipuscoa Silvestre, Ph.D., Vascular Plants  
James Rastorfer, Ph.D., Bryology  
Jacinto C. Regalado, Jr., Ph.D., Vascular Plants  
Isidoro Sanchez Vega, Ph.D., Vascular Plants  
Imke Schmitt, Ph.D., Lichenology  
Rudolf M. Schuster, Ph.D., Bryology  
Alan R. Smith, Ph.D., Pteridology  
D. Doel Soejarto, Ph.D., Vascular Plants  
Tod F. Stuessy, Ph.D., Vascular Plants  
Jun Wen, Ph.D., Vascular Plants  
Qiuxin Wu, Ph.D., Mycology  
Kenneth Young, Ph.D., Vascular Plants  
Nyree Zerega, Ph.D., Vascular Plants

#### **Field Associates**

Sandra Knapp, Ph.D., Vascular Plants  
Antonio Molina R., Ing. Agr., Vascular Plants

#### **Associates**

Anders Hagborg, B.S., Bryology  
Betty Strack, M.S., Mycology

### **DEPARTMENT OF GEOLOGY**

#### **Curators Emeritus**

John R. Bolt, Ph.D., Fossil Amphibians and Reptiles  
Matthew H. Nitecki, Ph.D., Fossil Invertebrates  
William D. Turnbull, Ph.D., Fossil Mammals  
Bertram G. Woodland, Ph.D., Petrology

#### **Research Associates**

William L. Abler, Ph.D., Fossil Vertebrates  
Edgar Allin, Ph.D., Fossil Vertebrates  
Gloria Arratia, Ph.D., Fossil Fishes  
David Bardack, Ph.D., Fossil Fishes  
Allison L. Beck, Ph.D., Fossil Vertebrates  
William Bemis, Ph.D., Fossil Vertebrates  
C. Kevin Boyce, Ph.D., Paleobotany  
Christopher A. Brochu, Ph.D., Fossil Vertebrates  
Greg Buckley, Ph.D., Fossil Vertebrates  
Andrew Campbell, Ph.D., Meteoritics  
Matthew T. Carrano, Ph.D. Fossil Vertebrates  
Julia A. Clarke, Ph.D., Fossil Vertebrates



Robert Clayton, Ph.D., Meteoritics/Geochemistry  
 Michael Ivor Coates, Ph.D., Fossil Fishes  
 Peter R. Crane, Ph.D., Paleobotany  
 Darin A. Croft, Ph.D., Fossil Vertebrates  
 Andrew Davis, Ph.D., Meteoritics/Geochemistry  
 David Kenneth Elliott, Ph.D., Fossil Vertebrates  
 Greg Erickson, Ph.D., Fossil Vertebrates  
 Daniel Fisher, Ph.D., Fossil Invertebrates  
 John Flynn, Ph.D., Fossil Mammals  
 Michael Foote, Ph.D., Fossil Invertebrates  
 Catherine Forster, Ph.D., Fossil Vertebrates  
 Nadia B. Fröbisch, Ph.D., Fossil Vertebrates  
 Gary Galbreath, Ph.D., Fossil Vertebrates  
 Terry Allen (Bucky) Gates, Ph.D., Fossil Vertebrates  
 Timothy Gaudin, Ph.D., Fossil Mammals  
 Terry Grande, Ph.D., Fossil Fishes  
 Gerald Grellet-Tinner, Ph.D., Dinosaurs  
 Lawrence Grossman, Ph.D., Meteoritics  
 Thomas Guensburg, Ph.D., Fossil Invertebrates  
 William Hammer, Ph.D., Fossil Reptiles  
 Eric Hilton, Ph.D., Fishes  
 James Hopson, Ph.D., Fossil Vertebrates  
 David Jablonski, Ph.D., Fossil Invertebrates  
 Christine Janis, Ph.D., Fossil Mammals/other verts.  
 Harry J. Jerison, Ph.D., Fossil Vertebrates  
 Lenny Kouwenberg, Ph.D., Paleoecology  
 David Krause, Ph.D., Fossil Vertebrates  
 Michael LaBarbera, Ph.D., Fossil Invertebrates  
 Riccardo Levi-Setti, Ph.D., Fossil Invertebrates  
 R. Eric Lombard, Ph.D., Fossil Vertebrates  
 Ernest Lundelius, Ph.D., Fossil Mammals  
 Jennifer C. McElwain, Ph.D., Paleobotany  
 Frank McKinney, Ph.D., Fossil Invertebrates  
 J. Michael Parrish, Ph.D., Fossil Reptiles  
 Roy E. Plotnick, Ph.D., Fossil Invertebrates  
 Robert R. Reisz, Ph.D., Fossil Reptiles  
 Frank M. Richter, Ph.D., Meteoritics  
 Ray Rogers, Ph.D., Sedimentology  
 Paul Sereno, Ph.D., Fossil Reptiles  
 Neil H. Shubin, Ph.D., Fossil Vertebrates  
 Paul P. Sipiera, Ph.D., Meteoritics  
 Neil C. Sturchio, Ph.D., Meteoritics  
 Stuart S. Sumida, Ph.D., Fossil Vertebrates  
 Stephen R. Sutton, Ph.D., Meteoritics  
 Alfred Traverse, Ph.D., Fossil Plants/Paleopalynology  
 Leigh Van Valen, Ph.D., Fossil Mammals  
 Meenakshi Wadhwa, Ph.D., Meteoritics  
 Mark Webster, Ph.D., Fossil Invertebrates  
 Robin Whatley, Ph.D., Fossil Vertebrates  
 André Wyss, Ph.D., Fossil Mammals

#### **Associates**

Nicolas Dauphas, Ph.D., Cosmochemistry  
 Doris Nitecki, M.A., Fossil Invertebrates



## **DEPARTMENT OF ZOOLOGY**

### **Curator Emeritus**

Robert F. Inger, Ph.D., Amphibians and Reptiles

Alfred F. Newton, Ph.D., Insects

Harold K. Voris, Ph.D., Amphibians and Reptiles

### **Field Associates**

Tom Anton, M.A., Midwestern Amphibians and Reptiles

Sherif Baha El Din, M.S., Herpetology of Egypt

Barbara Becker, M.A., Zoology Research

Somchai Bussarawit, B.S., Marine Biology

Tanya Chan-ard, M.S., Forest Biology and Herpetology

Merel J. Cox, M.S., Geology, Snakes of Thailand

Leif Davenport, Mammals of Burundi

Susan Davis, M.S., Neotropical Birds

Steve Fratello, Guyanan Butterflies

Bruce Hayward, Ph.D., African Mammals

Nina R. Ingle, Ph.D., Philippine Mammals and Conservation

Djoko T. Iskandar, Ph.D., Genetic and Systematics of Amphibians

Maklarin Lakim, Research Officer

Vachira Lheknim, Ph.D., Fish of Thailand

Kelvin Lim Kok Peng, Amphibians and Reptiles

Antonio Machado-Allison, Ph.D., South American Fishes

David Matusik, Lepidoptera Taxonomy

Gregory Mayer, Ph.D., Organismic and Evolutionary Biology

Manuel A. Plenge, Peruvian Bird Distribution

Blas Tabaranza, M.S., Philippine Mammals

Jamie Thomerson, Ph.D., Central and South American Fishes

Ruth Utzurrum, Ph.D., Philippine Mammals

### **Research Associates**

David Angulo, M.S., Computer Technology and Databases

Michael Alfaro, Ph.D., Molecular Systematics

Anchalee Aowphol, Ph.D., Ecology and Population Genetics

Mary Ashley, Ph.D., Conservation Genetics

Wirt Atmar, Ph.D., Diversity and Community Structure

Danny Balete, M.S., Philippine Mammals and Conservation

Rosemary Barraclough, Ph.D., Blood Bird Parasites

Jason E. Bond, Ph.D., Systematics of Diplopoda and Araneae

Rauri Bowie, Ph.D., African Bird Systematics

John Cadle, Ph.D., Herpetology

Angelo Capparella, Ph.D., Evolution of Neotropical Birds

Jose Maria Cardoso da Silva, Ph.D., Amazonian Birds

Barry Chernoff, Ph.D., South American Fishes/Conservation

Dale Clayton, Ph.D., Host/Parasite Coevolution

Melissa Cogan-Morales, Ph.D., Bat Morphology

Timothy Collins, Ph.D., Molecular Evolution of Mollusks

Joel Cracraft, Ph.D., Avian Systematics and Evolutionary Biology

Kevin S. Cummings, Ph.D., Freshwater Bivalves

Marian Dagosto, Ph.D., Primates

Carl W. Dick, Ph.D., Systematics of Streblidae (Diptera)/Host-Parasite Biology

Michael L. Draney, Ph.D., Systematics of Linyphiidae (Araneae)

Amy Driskell, Ph.D., Evolution of Birds and Bioinformatics

Brian Dyer, Ph.D., Biomechanics

John Fitzpatrick, Ph.D., Evolutionary Ecology and Biogeography of Neotropical Birds

Daniel Gebo, Ph.D., Primates  
 Cynthia Gerstner, Ph.D., South American Armored Catfishes  
 Jaqueline Goerck, Ph.D., Conservation in Brazil  
 Paul Z. Goldstein, Ph.D., Systematics of Lepidoptera  
 Joel Greenberg, Ph.D., Chicago Natural History  
 Melina Hale, Ph.D., Biomechanics  
 Malcolm Hast, Ph.D., Mammalian Vocal Apparatus  
 John M. Healy, Ph.D., Marine Mollusks  
 Jacques Hill, Ph.D., Southeast Asian Herpetology  
 Rainer Hutterer, Ph.D., Mammalian Insectivores  
 Bruce C. Jayne, Ph.D., Marine and Estuarine Snakes  
 William B. Jefferies, Ph.D., Coevolution and Symbiosis in Crustaceans  
 Ulf Johanson, Ph.D., Himalayan Bird Ecology  
 Kevin Johnson, Ph.D., Systematics and Evolution of Birds  
 Christian Kammerer, B.S., Deep Sea Fishes  
 Daryl Karns, Ph.D., Herpetology and Community Ecology  
 Douglas Kelt, Ph.D., South American Mammals  
 David H. Kistner, Ph.D., Systematics of Staphylinidae Associated with Ants and Termites  
 James Koepl, Ph.D., Statistical Properties of Animal Populations  
 Peter E. Lowther, Ph.D., Field Museum Nest and Egg Collection  
 Vimoksalehi Lukoschek, Ph.D., Marine and Estuarine Snakes  
 Jessie Maisano, Ph.D., Skeletal Morphology of Squamates  
 Luisa Marcelino-Backman, Ph.D., Corals  
 Jose Maria Cardoso da Silva, Ph.D., Brazilian Birds  
 Christopher J. Marshall, Ph.D., Systematics of Coleoptera  
 Peter Meserve, Ph.D., Population Ecology of Mammals  
 Paula M. Mikkelsen, Ph.D., Marine Mollusks  
 John C. Murphy, M.S., Herpetology  
 Charles Nadler, M.D., Sciuridae  
 John O'Neill, Ph.D., Neotropical Birds  
 Link Olson, Ph.D., Malagasy Mammals  
 Perry Ong, Philippine Mammals  
 Jennifer Osterhage, Ph.D., Molecular Biology and Genetics  
 Victor Pacheco, M.A., Peruvian Mammals  
 Somsak Panha, Ph.D., Land Gastropods of Southeast Asia  
 Ronald Panzer, Ph.D., Invertebrate Conservation  
 Stewart B. Peck, Ph.D., Systematics of Coleoptera  
 Richard E. Petit, Marine Gastropods  
 Paulo Petry, Ph.D., South American Fishes  
 Ronald Pine, Ph.D., Taxonomy of South American Mammals  
 James Pokines, Ph.D., Taphonomy-Archeology of Mammal Bones  
 Stephen Pruett-Jones, Ph.D., Behavior and Ecology of Birds  
 George B. Rabb, Ph.D., Taxonomy of Salamanders, Phylogeny of Snakes  
 Timothy Rawlings, Ph.D., Marine Mollusks  
 Justine Ray, Ph.D., Central African Mammals  
 Matthew Ravosa, Ph.D., Primates  
 Sushma Reddy, Ph.D., Asian Biogeography and Phylogenetics  
 Scott Robinson, Ph.D., Neotropical Birds  
 Luis Ruedas, Ph.D., Southeast Asian Mammals  
 Victor Sanchez-Cordero, Ph.D., Mexican Mammals  
 Nikolaos Schizas, Ph.D., Population Genetics  
 Thomas Schulenberg, Ph.D., Neotropical Birds  
 Jodi Sedlock, Ph.D., Bat Ecology  
 Sergio Solari, M.S., Mammals of Peru  
 Alexey Y. Solodovnikov, Ph.D., Systematics of Staphylinidae (Coleoptera)  
 Bill Strausberger, Ph.D., Cowbirds

Bryan L. Stuart, Ph.D., Herpetology  
Robert Stuebing, M.S., Malaysian Ecology  
J. Bolling Sullivan III, Ph.D., Systematics of Lepidoptera  
Tan Fui Lian, Amphibians and Reptiles of Borneo  
Kumthorn Thirakhupt, Ph.D., Southeast Asian Herpetology  
Vinton Thompson, Ph.D., Systematics of Hemiptera  
Robert Timm, Ph.D., New World Mammals  
Gary Voelker, Ph.D., Bird Systematics  
Bruce Walsh, Ph.D., Systematics of Lepidoptera  
Joseph Walsh, Ph.D., Mammalian Systematics  
Fred F. Wells, Ph.D., Marine Mollusks  
John Wible, Ph.D., Higher Level Taxonomy of Mammals  
Glen Woolfenden, Ph.D., Florida Scrub Jay  
Chris Yahnke, Ph.D., Neotropical Mammals  
Andrew Yang, Ph.D., Systematics of Formicidae (Hymenoptera)  
Anne Yoder, Ph.D., Primate Evolution  
John Yunker, Ph.D., Mammals of the Chicago Area

### **Associates**

Matt Bonnan, Ph.D., Vertebrate Paleontology  
Barbara Brown, B.A., Primates  
Lauren E. Brown, Ph.D., Herpetology of Midwestern U.S.  
Thomas M. Butynski, Ph.D., African Primates  
Sidney Camras, M.D., Systematics of Conopidae (Diptera)  
Arvin C. Diesmos, M.S., Philippines Amphibians  
Barbara A. Harney, M.S., Mammal Ecology  
N. Aldrin D. Mallari, M.S., Philippines Conservation  
Peggy McNamara, Artist  
Philip P. Parrillo, B.S., Systematics of Carabidae (Coleoptera)  
Nina Sandlin, B.A., Taxonomy of Linyphiidae (Araneae)  
John A. Wagner, Ph.D., Systematics of Staphylinidae: Pselaphinae (Coleoptera)

## COLLECTION STATISTICS, 2009

### Collection Size and Growth

	2008 Number of Specimens	2009 Number of Specimens	2008–2009 % growth
<b><u>DEPARTMENT OF ANTHROPOLOGY</u></b>			
Africa	108,983	108,988	0.00%
Europe	37,560	37,560	0.00%
Asia	94,517	94,566	0.05%
South America	54,874	54,885	0.02%
Central & Middle America	27,697	27,883	0.67%
North America	664,781	664,805	0.00%
Pacific	59,087	59,146	0.10%
Osteological Collection	31,791	31,791	0.00%
<b>Anthropology Subtotal</b>	<b>1,079,290</b>	<b>1,079,624</b>	<b>0.03%</b>
<b><u>DEPARTMENT OF BOTANY</u></b>			
Algae	78,142	78,142	0.00%
Fungi (including lichens)	198,210	202,300	2.06%
Bryophytes	221,225	225,725	2.00%
Pteridophytes	118,180	118,180	0.00%
Gymnosperms	11,225	11,275	0.45%
Angiosperms	2,148,239	2,154,275	0.28%
<b>Botany Subtotal</b>	<b>2,775,221</b>	<b>2,789,897</b>	<b>0.53%</b>
<b><u>DEPARTMENT OF GEOLOGY</u></b>			
Physical Geology	51,439	53,227	3.48%
Invertebrate Paleontology	322,732	322,762	0.01%
Plant Paleontology	59,604	60,237	1.06%
Vertebrate Paleontology	82,579	82,855	0.33%
<b>Geology Subtotal</b>	<b>516,354</b>	<b>519,081</b>	<b>0.53%</b>
<b><u>DEPARTMENT OF ZOOLOGY</u></b>			
Amphibians and Reptiles	288,233	290,445	0.77%
Birds	483,396	487,304	0.81%
Fishes	1,904,526	1,905,966	0.08%
Insects	12,320,488	12,471,409	1.22%
Invertebrates	4,569,609	4,606,385	0.80%
Mammals	203,679	206,816	1.54%
<b>Zoology Subtotal</b>	<b>19,769,931</b>	<b>19,968,325</b>	<b>1.00%</b>
<b>TOTAL SPECIMENS</b>	<b>24,140,796</b>	<b>24,356,927</b>	<b>0.90%</b>

**COLLECTION STATISTICS, 2009**

**Outgoing Loans from Field Museum Collections**

	<b>Number of Loans</b>	<b>Number of Specimens</b>
<b><u>DEPARTMENT OF ANTHROPOLOGY</u></b>		
<b>Anthropology Subtotal</b>	<b>16</b>	<b>646</b>
<b><u>DEPARTMENT OF BOTANY</u></b>		
Algae	0	0
Fungi (including lichens)	28	2,002
Bryophytes	13	1,326
Pteridophytes	3	382
Gymnosperms	0	0
Angiosperms	50	7,066
<b>Botany Subtotal</b>	<b>94</b>	<b>10,776</b>
<b><u>DEPARTMENT OF GEOLOGY</u></b>		
Physical Geology	15	59
Invertebrate Paleontology	17	535
Plant Paleontology	14	1,263
Vertebrate Paleontology	29	204
<b>Geology Subtotal</b>	<b>75</b>	<b>2,061</b>
<b><u>DEPARTMENT OF ZOOLOGY</u></b>		
Amphibians and Reptiles	80	2,932
Birds	111	1,986
Fishes	33	1,694
Insects	120	112,959
Invertebrates	5	707
Mammals	61	2,143
<b>Zoology Subtotal</b>	<b>410</b>	<b>122,421</b>
<b>TOTAL</b>	<b>595</b>	<b>135,904</b>

**COLLECTION STATISTICS, 2009**

**Incoming Loans from Other Institutions or Parties**

	<b>Number of Loans</b>	<b>Number of Specimens</b>
<b><u>DEPARTMENT OF ANTHROPOLOGY</u></b>		
<b>Anthropology Subtotal</b>	<b>0</b>	<b>0</b>
<b><u>DEPARTMENT OF BOTANY</u></b>		
Algae	0	0
Fungi (including lichens)	66	4,900
Bryophytes	33	897
Pteridophytes	0	0
Gymnosperms	0	0
Angiosperms	34	4,119
<b>Botany Subtotal</b>	<b>133</b>	<b>9,916</b>
<b><u>DEPARTMENT OF GEOLOGY</u></b>		
Physical Geology	2	4
Invertebrate Paleontology	0	0
Plant Paleontology	1	6
Vertebrate Paleontology	n/a	n/a
<b>Geology Subtotal</b>	<b>3</b>	<b>10</b>
<b><u>DEPARTMENT OF ZOOLOGY</u></b>		
Amphibians and Reptiles	9	683
Birds	14	139
Fishes	5	22
Insects	77	8,249
Invertebrates	33	9,058
Mammals	16	126
<b>Zoology Subtotal</b>	<b>154</b>	<b>18,277</b>
<b>TOTAL</b>	<b>290</b>	<b>28,203</b>



# COLLECTION STATISTICS, 2009

## Use of Collections by Visitors

	<u>Scientific Visitors</u>		<u>Classes</u>		<u>Information/Outreach</u>	
	Total Visitors	Total Visitor Days	Total Classes	Total Students	Total Visits	Total Visitors
<b><u>ANTHROPOLOGY</u></b>						
<b>Subtotal</b>	<b>136</b>	<b>151</b>	<b>3</b>	<b>56</b>	<b>47</b>	<b>390</b>
<b><u>BOTANY</u></b>						
Algae	1	2	0	0	0	0
Fungi	12	182	1	5	3	54
Bryophytes	14	44	0	0	1	20
Pteridophytes	1	2	0	0	0	0
Gymnosperms	1	4	0	0	0	0
Angiosperms	67	97	3	23	3	15
<b>Subtotal</b>	<b>96</b>	<b>331</b>	<b>4</b>	<b>28</b>	<b>7</b>	<b>89</b>
<b><u>GEOLOGY</u></b>						
Physical Geology	0	0	3	47	15	127
Invertebrate Paleo	31	52	4	23	2	2
Plant Paleontology	25	34	1	14	3	21
Vertebrate Paleo	78	218	2	6	0	0
<b>Subtotal</b>	<b>134</b>	<b>304</b>	<b>10</b>	<b>90</b>	<b>20</b>	<b>150</b>
<b><u>ZOOLOGY</u></b>						
Amphib./Reptiles	91	543	6	96	32	81
Birds	33	220	15	200	180	1,950
Fishes	31	100	21	431	29	173
Insects	56	249	18	349	26	101
Invertebrates	44	62	0	0	12	74
Mammals	246	707	9	102	120	1,065
<b>Subtotal</b>	<b>501</b>	<b>1,881</b>	<b>69</b>	<b>1,178</b>	<b>399</b>	<b>3,444</b>
<b>TOTALS</b>	<b>867</b>	<b>2,667</b>	<b>86</b>	<b>1,352</b>	<b>473</b>	<b>4,073</b>

## **BIODIVERSITY SYNTHESIS CENTER, 2009**

The Encyclopedia of Life (EOL) serves as an open-access online reference and database for information on every named species. The EOL is used as both a teaching and a learning tool; helping scientists, educators, students, and the community at large gain a better understanding of biodiversity and evolution. Over the next five years, EOL aims to 1) generate one million species pages, each one containing content verified by scientific experts, 2) digitize a large portion of the core biodiversity literature, 3) generate educational materials for students, schools and universities, and citizen scientists, and 4) use EOL page content and cross-linkages as a resource to generate new synthetic knowledge about the world's biodiversity.

The project, funded by the MacArthur and Sloan Foundations, brings together several of the world's leading natural history institutions, including the Smithsonian Institution, The Field Museum, Harvard University, the Marine Biological Laboratory, the Missouri Botanical Garden, and the Biodiversity Heritage Library consortium. EOL's core activities are led by five working groups: Species Sites (led by Cynthia Simms-Parr, SI), Biodiversity Informatics (led by Nathan Wilson, MBL), Scanning and Digitization (led by Tom Garnett, BHL), Education and Outreach (led by Marie Studer, Harvard) and Biodiversity Synthesis (led by Mark Westneat, FM).

The Biodiversity Synthesis Center's mission is to increase the pace of scientific discovery about biodiversity, conservation, and the evolution of life. BioSynC serves as a liaison between the international scientific community and EOL. BioSynC helps to recruit EOL involvement within the scientific community and organizes and hosts "Synthesis Meetings" bringing together experts in systematics, conservation, informatics, and programming to generate data, applications, and visualizations that will promote biodiversity research, education, and conservation.

In 2009, BioSynC hosted 15 synthesis meetings, strengthening the scientific profile of EOL and The Field Museum in the international scientific community. To date, synthesis meetings represent the most significant avenue for the internationalization of EOL, involving more than 450 participants from 36 countries. Synthesis meetings produce scientific content for EOL, new software and tools for EOL, scientific publications on materials in EOL, and major grant proposals, among other things.

This year, BioSynC staff were awarded more than \$800,000 in NSF grants and contributed to innovative digital learning programs in the Museum, including WhyReef and I Dig Zambia. WhyReef (collaboration with FM Education) produced a simulated coral reef in the virtual world Whyville.net and reached more than 25,000 unique users in its target age group: 8-16 year olds. WhyReef teaches kids about marine biodiversity and conservation. I Dig Zambia (collaboration with FM Geology) teaches teens in the U.S. and Africa about science and cultural issues using satellite technology to connect students with Field Museum scientists excavating fossils in the field.

### **2009 Synthesis Meetings**

**Heteroptera** February 5–9, 2009 in Riverside, CA. A synthesis meeting with 22 participants (including 6 graduate and undergraduate students) to combine output from recent NSF and GBIF funded investigations into the speciose (>40,000 species) true bugs and to decide best practices for organizing species information and for displaying information through EOL.

**Millipedes** March 20–25, 2009 in Munich, Germany. A synthesis meeting with 11 participants to resolve the taxonomy for 15,000 millipede species. Participants also planned for the merging of several smaller databases, beta-tested LifeDesk, and organized millipede literature resources.

**Peracarids** April 3–6, 2009 in Catalina Island, CA. A synthesis meeting with 18 participants to collate, organize, and aggregate amphipod and isopod data from a range of electronic sources and databases. This meeting produced a working plan for international collaboration on a complete vetted species list for this large (~15,000 species) group. Meeting participants created a new website (peracarida.org) where they will collaborate and share information with each other and with EOL. The group also outlined an

NSF-ATOL proposal and assigned authors for proposal sections. Other products included a LifeDesk and EOL curators.

**TreeVisualization2** May 1–3, 2009 in Chicago, IL. This meeting was the fourth in a series to develop a user-friendly visualization interface for the Tree of Life integrated with the EOL. This meeting greatly expanded the working group, including representatives from phylogenetics, computer visualization, and the software industry and produced a \$2M grant proposal to NSF to continue the development of novel applications for the use of evolutionary trees with the EOL and partner databases.

**Species Distributions** May 20–23, 2009 in Chicago, IL. This meeting was the first in a series to develop new, integrative tools for mapping species distributions. A collaboration with the Informatics Group and GBIF, the meeting spearheaded the new “Map of Life” program, focusing on data integration and modeling. This first meeting developed the conceptual framework for the Map, which will be detailed in a peer-reviewed publication.

**Liverworts** May 26–29, 2009 in Chicago, IL. This large synthesis meeting of 35 participants collated and synthesized diverse content on the liverworts and hornworts. The group reconciled smaller phylogenies (using BioSynC-developed Phylografter) and collated bibliographies. This meeting produced large bibliographies and PDF libraries for BHL, EOL curators, species page contributions, and a LifeDesk.

**Crayfish** June 8–12, 2009 in Chicago, IL. This meeting was the first in a series to compile all biological information on and assess red list status of crayfish and clam species. The meeting served as a red-listing template for EOL to highlight biodiversity conservation on our site. This meeting produced 380 comprehensive species assessments which will be made available to EOL. In addition, the meeting recruited EOL curators and continued the discussion to get the data from the global red-listing process onto species pages.

**Choanoflagellates** June 11–14, 2009 in Berkeley, CA. This meeting brought together 2 disparate generations of researchers: a group of international senior faculty (experts in the taxonomy, systematics, and biology of these important early metazoans) and junior researchers and graduate students, with the goal of training a future generation of experts while vetting species lists and phylogenies. The meeting produced content on all 150 known named species of choanoflagellates, which will be shared with EOL via micro\*scope.

**Coral** June 15–20, 2009 in Washington, DC. This meeting brought together the world’s experts on scleractinian corals to revise and reconcile global phylogeny, collate and combine datasets, and plan for a data partnership between EOL and Corallosphere. This meeting produced several curators for EOL, an agreement to share the vetted classification with EOL, an agreement for participants to use EOL Flickr for sharing images, and a manuscript for publication.

**Melanesian Biogeography** August 10–15, 2009 in Suva, Fiji. This meeting unified researchers working on disparate taxa that occur throughout Melanesia, and included specialists from government agencies, NGOs, universities, and museums. By synthesizing systematic and distribution data across plants and animals, the group is trying to improve understanding of the evolution of and threats to this diverse region. The meeting included a large training component, with students from five countries participating. The meeting produced a Fijian translation of the EOL video, a collaborative NSF proposal for submission in January 2010, new EOL curators, new LifeDesks, and two manuscripts for journal submission.

**Fossil Marine Tetrapods** August 11–13, 2009 in Chicago, IL. Marine tetrapods include a broad array of taxa, from whales to penguins to manatees. These taxa are charismatic and their excellent fossil record of transitional forms makes them critical in discussions of evolution by natural selection. This meeting was the first to focus wholly on fossil species and paved the way for interactions and data-sharing between major paleontology databases/websites and EOL. The meeting produced several new EOL curators, new LifeDesks, plans for a group NSF proposal in 2010, new content for EOL, a manuscript for publication, and plans for a data partnership between EOL and the PaleoBiology DataBase (PBDB—a major archive for information on thousands of fossil species).

**Time Axis for EOL** September 21–22, 2009 in Bristol, England. This meeting aimed to organize information on the first appearance of major taxa in the fossil record. These data will then be posted on EOL species pages for extant taxa in the same lineages, to serve the needs of a large community of molecular biologists who need accurate data to calibrate their molecular phylogenies. The meeting focused on tetrapods, but the concept should apply to all fossil groups. The meeting produced new EOL curators, a manuscript for publication, and a grant proposal for developing online resources.

**Impact of Climate Change on Species** October 5–8, 2009 in Chicago, IL. This meeting was the second in a series of three, the first paid for by Cornell University, the second by BioSynC, and the third pending NESCent support. The series aims to use diverse exemplar species to develop quantitative methods for evaluating the reaction of species to climate change. The ultimate goal is to produce predictive climate change models for EOL species pages. The meeting produced new EOL curators, a grant proposal to NSF, plans for a website to test the broad formulae developed, and a manuscript for publication.

**Students Authoring Species Accounts** October 22–24, 2009 in Chicago, IL. This meeting improved ADW templates for undergraduate authorship of animal species accounts, an established EOL data partner. Breakout groups explored the process of vetting by faculty, the user-interface, and data-sharing with EOL. The meeting produced several new EOL curators, a new LifeDesk, new Flickr contributions, a best practices document for faculty using the ADW template in courses, and new timelines and guides for students and instructors.

**Ants** November 5–8, 2009 in Chicago, IL. This meeting is the second in a series (the first sponsored by Ed Wilson and Harvard) aimed at unifying and synthesizing data on ants worldwide for distribution via AntWeb and EOL. The meeting produced several new EOL curators, plans for a new governing board at AntWeb, plans for future NSF proposals to financially support AntWeb, and new content and contributors to AntWeb, a valued EOL data partner.

## **FIELDIANA, 2009**

*Fieldiana* is a peer-reviewed monographic series published by the Field Museum of Natural History. *Fieldiana* focuses on mid-length monographs and scientific papers pertaining to collections and research at Field Museum. The four series pertain to subject matter in the fields of Anthropology, Botany, Geology, and Zoology. Curators, research associates, full-time scientific support staff, full-time paid postdoctoral fellows, graduate students of Field Museum curators, and fellowship awardees may submit manuscripts for publication in *Fieldiana*.

This year *Fieldiana* was printed in the new 8 1/2 by 11 inch format featuring a full-color cover illustration. In 2009, three issues were published totaling 166 pages. This is the same number of issues published in 2008. Total page count decreased substantially from the 2008 total of 443 pages. This comparison is a bit misleading because pages in the new format contain about 36% more text than in the old format. There are currently three manuscripts, two Botany and one Geology, in preparation at Allen Press. Much of the editorial work on these three issues was done in 2009. With the addition of manuscripts already received and undergoing review, 2010 promises to be a very active year for *Fieldiana*.

Progress continues to be made in increasing the amount of editorial work completed electronically. A contract with the Copyright Clearance Center was signed this year covering virtually all *Fieldiana* issues except *Fieldiana* Anthropology. The Copyright Clearance Center will handle the authorization and collection of fees for the users of *Fieldiana* copyrighted material. This should substantially increase revenue to *Fieldiana* while reducing staff time and effort previously devoted to managing copyright permissions. The contract with BioOne.2 was also renewed.

On the Editorial Board, Associate Editor for Geology, John Bolt, was replaced by Olivier Rieppel for a two year term beginning in January of 2009.

Visit the *Fieldiana* Website for more information:  
[http://www.fieldmuseum.org/research\\_collections/fieldiana/](http://www.fieldmuseum.org/research_collections/fieldiana/)

### ***Fieldiana: Anthropology***

No. 41. Continuity and Change in a Domestic Industry: Santa María Atzompa, a Pottery Making Town in Oaxaca, Mexico. By Mary Stevenson Thieme. 2009. 80 pages. Publication No. 1553.

### ***Fieldiana: Zoology***

No. 115. The Fishes of Will County, Illinois. By Philip W. Willink and Francis M. Veraldi. 2009. 61 pages. Publication No. 1551.

No. 116. Contributions to the Natural History of Seven Species of Bornean Frogs. By Robert F. Inger. 2009. 25 pages. Publication No. 1552.

## **PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION, 2009**

The Pritzker Laboratory for Molecular Systematics and Evolution was named in recognition of generous support from The Pritzker Foundation. The Pritzker Lab is a Field Museum multi-user core facility whose mission is the collection and analysis of genetic data. The majority of the data collected are DNA sequences. The main sources of specimens used in the laboratory are the frozen tissue collections of The Field Museum's Zoology and Botany Departments, although herbarium and traditional museum skins are also used. DNA sequence data are desirable for many reasons in evolutionary studies. Chief among these is the fact that DNA sequences are composed of only four nucleotide bases, resulting in data that are, in some analytical respects, very simple. Another extremely useful property of DNA sequence data is the high level of comparability across species and across studies. Together, these properties mean that DNA sequence data can be used to investigate diverse questions at all levels in the biological hierarchy: questions about individuals, populations, species, and even phyla and kingdoms.

In addition to DNA sequence data, the lab had several ongoing projects employing fragment analysis. For example, microsatellite DNA data are being used to examine mating system of lemon sharks, the evolution of brood parasitism in cowbird, and the population genetics of cavefish from Madagascar.

The primary activity of lab users is the collection and analysis of genetic data for inferring the evolutionary, or phylogenetic, relationships among species. This knowledge of phylogenetic relationships is fundamental to understanding organismal evolution and the origins of biological diversity. Patterns of phylogenetic relationships among species can be used to trace evolutionary changes and provide insights to the biological and geological histories of geographic regions. Another focus of lab research involves characterizing the amount of genetic variation within and among populations. These data can be used to help guide conservation efforts, and to study the processes driving evolution, such as mate choice.

The majority of lab users are Field Museum curators, their graduate students from the University of Chicago and the University of Illinois at Chicago, and their post-doctoral researchers. As it does every year, the lab had many international visitors in 2009. This year, we had visitors from Germany, Thailand, Madagascar, and England. Each of these visitors was trained the proper methods for collecting genetic data for their various projects. In 2009, we trained 39 national and international scientists to collect genetic data on a wide variety of organisms including sharks, coral reef fish, lichenized fungi, bivalves, birds, snakes, bats, dholes, and tapeworms. The many areas of inquiry pursued by these researchers include coevolution of parasites and hosts, the evolution of life history traits, rates of evolutionary change, biogeography, conservation, sexual selection, speciation, and natural selection at the molecular level. More than 40 new and continuing projects used the DNA sequencing facilities in 2009.

This past year was the first full year that our exhibit, the *Daniel F. and Ada L. Rice DNA Discovery Center*, was open to the public. This exhibit puts a public face on the Pritzker lab. In the exhibit space, visitors have an opportunity to witness DNA research in action and speak directly with scientists about their work in our "Talk to the Scientist Hour." In addition, visitors can explore hands-on interactives, videos, and engaging displays that provide information on the basics of DNA and offer a behind-the-scenes look at the incredible diversity of the Museum's collections. In conjunction with this exhibit, the Education Department and Pritzker Lab collaborated this past summer for the second annual DNA residency program. This program brought four high school students and two high school biology teachers into the museum's Pritzker Lab for a six-week course. As part of this course, they were trained in genetic techniques, including DNA extraction, polymerase chain reaction (PCR), and DNA sequencing. One group collected data for Dr. Shannon Hackett's assembling the bird tree of life while the other group collected data for Dr. Kevin Feldheim's lemon shark population genetic study.

The Pritzker Lab is a non-departmental unit of Collections and Research supervised by a Management Committee. It is available for use by the curators and staff members of the Museum, their collaborators and students. All users of the lab are responsible for designing, performing and financing their own lab work. We welcome additional collaborations with new institutions and researchers. For more information on specific research projects, please see the web pages of the Pritzker Lab:



[http://www.fmnh.org/research\\_collections/pritzker\\_lab/pritzker/index.html](http://www.fmnh.org/research_collections/pritzker_lab/pritzker/index.html); or the individual pages of committee that manages the facility: John Bates (Zoology); Thorsten Lumbsch (Botany); Shannon Hackett (Zoology); Rick Ree (Botany); Leo Smith (Zoology); Corrie Moreau (Zoology); and Kevin Feldheim (Pritzker Lab).

## **SCANNING ELECTRON MICROSCOPE LABORATORY, 2009**

The Field Museum's two scanning electron microscopes (SEMs) are invaluable research tools for examining fine surface details of three-dimensional objects and specimens from the museum's collections. The capability of viewing objects at very low magnifications as well as high magnifications (over 100,000 times life-size) is one of the special features of our SEMs. Images obtained from the scanning electron microscope achieve higher resolution and higher magnification than those observed with light microscopy, and the SEM images also provide 300 times more depth-of-field than those obtained with conventional light microscopy.

In addition to imaging, our newest SEM, the variable pressure LEO (Carl Zeiss) EVO Scanning Electron Microscope, is equipped with an Oxford Instruments INCA Energy Dispersive Spectroscopy (EDS) system that performs nondestructive major and minor elemental analysis of a variety of objects. This SEM was installed in April 2004 and has the largest chamber available for viewing sizeable specimens and objects. The LEO (Zeiss) SEM with the Oxford EDS was generously funded by an anonymous donor and is part of the museum's Elemental Analysis Facility.

The SEM Lab also has an Amray 1810 SEM that has been upgraded with a PC that has a digital imaging capturing system. The Amray SEM is an excellent tool for very low magnification in addition to high magnification work, examination without destructive methods (e.g. uncoated specimens), and a large range of specimen movement and positioning. Specimen preparation instruments in the lab include a Denton Vacuum Desk IV Sputter Coater for coating non-conductive specimens with a thin layer of gold and a Balzers 030 Critical Point Dryer for drying soft tissue.

The SEM Laboratory is a multi-user research facility used by researchers and students in The Field Museum's Departments of Anthropology, Botany, Geology, and Zoology. The laboratory is managed by Betty Strack. Twenty-eight curators, graduate students (mostly from the University of Chicago and the University of Illinois at Chicago), undergraduate interns, professional staff, research associates, and international visiting/collaborating scientists from Collections and Research used the SEMs in 2009. The staff, students, and collaborating scientists that had research projects include: Erika Arnold, Danny Balete, Ioulia Bessalova, Rüdiger Bieler, J.P. Brown, Dave Clarke, Peter Crane, Peter Decker, Carl Dick, Ian Glasspool, Lori Grove, Larry Heaney, Patrick Herendeen, Rebecca Koll, Peter Makovicky, Eimy Rivas Plata, Petra Sierwald, Sid Staubach, Bill Turnbull, Paul Velazco, Thomas Wesener, Lindsay Zanno, and six Iraqi scientists (listed below).

In 2009, the SEM continues to be an important component of many new and continuing research projects. Topics of these projects and specimens/objects studied include:

- Photo atlas of spider morphology
- Photo atlas of millipede morphology
- Morphology of bivalves
- Parasitic bat flies
- Morphology of rove beetles
- Examinations of small mammal teeth and skulls
- Tropical microlichens
- Examinations of fossil plants
- Fossil tooth enamel microstructure of theropods

A special training workshop for Iraqi scientists was organized and led by J. P. Brown in May. Alaa Al-Lami, Shukran Al-Alwe, Hussein Al-Ameri, Ali Al-Kaoak, Jaafar Al-Mamoori, and Sami Hasan from the Iraq National Museum in Baghdad participated in this workshop as part of the Iraq Cultural Heritage Program.

## **SCHOLARSHIP COMMITTEE, 2009**

The Field Museum Scholarship Committee supports professional scientists and students who wish to work with the Museum's collections or collaborate with its researchers. The Scholarship Committee administers seven separate awards, including graduate fellowships, visiting scientist grants, scholarships for early-career scientists, and undergraduate scholarships.

During 2009 the Scholarship Committee awarded 6 scholarships, 3 fellowships, and 8 REU scholarships in all four Collections & Research departments. Visiting scientists and students came from around the globe, including Brazil, Japan, New Zealand, Portugal, Peru and Thailand, as well as the U.S.

The Scholarship Committee is currently chaired by Associate Curator Petra Sierwald (Zoology/Insects). Collections Assistant Stephanie Ware (Zoology/Insects) serves as Committee Secretary.

### **Scholarships, Fellowships, and Internships Awarded in 2009**

Lester Armour Family Graduate Fellowship (for outstanding graduate students to pursue advanced studies in one of the scientific departments at the museum): David J. Clarke.

Women's Board "Women In Science" Fellowship (for exceptional women Ph.D. candidates in the natural sciences): Sara Branco.

Brown Family Graduate Fellowship (for outstanding students enrolled in the Committee on Evolutionary Biology program at the University of Chicago): Nathan D. Smith.

Thomas J. Dee scholars (for research and academic fellowships with priority given to younger, less established research workers): Abhijit Das, Allyson Marie Fenwick, Patrick Kuss, Thais de Castro Lira, Paulo Henrique Franco Lucinda, Hugo Mantilla-Meluk, Lilia Bibiana Moncada, Carlos Luis do Nascimento, Anh Duc Nguyen, Khwanruan Papong, Marcelo Salles Rocha, Eva Sacchi, Sergey Tarasov, Laura Maria Vásquez-Vélez.

Research Experiences for Undergraduates (educational opportunity for students in the biological sciences to interact with scientists dedicated to the study of organic diversity): William Adams, Ioulia Beshpalova, Austin Hicks, Kristin Kalita, Elizabeth Loehrer, Gabrielle Lopez, Bryan Quach, Anna Sjodin.





On the front cover: a watercolor by Nancy Klaud of a new species of *Magnolia* from the Rio Alto Mayo region of San Martin, Peru, described in late 2009 by Curator Emeritus Michael Dillon (Botany) and his colleague Isidoro Sánchez Vega of the Universidad Nacional de Cajamarca.

The new species, *Magnolia bankardiorum* (pictured above left) is considered rare and endangered due to habitat destruction, even though its range is largely within a national reserve (above right).